

catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
 atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
 ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg 600
 acaagagcag gtggcagcag gggaaagtct tctcatgctc cgtgatgcat gaggctctgc 660
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 gactctagag gat 733

<210> 2
 <211> 5
 <212> PRT
 <213> Homo sapiens

<220>
 <221> Site
 <222> (3)
 <223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2
 Trp Ser Xaa Trp Ser
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<210> 3
 <211> 86
 <212> DNA
 <213> Homo sapiens

<400> 3
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 cccgaaatat ctgccatctc aattag 86

<210> 4
 <211> 27
 <212> DNA
 <213> Homo sapiens

<400> 4
 gcggcaagct ttttgcaaag cctagggc 27

<210> 5
 <211> 271
 <212> DNA
 <213> Homo sapiens

<400> 5
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 aaatatctgc catctcaatt agtcagcaac catagtccecg cccctaactc cgcccatccc 120
 gccctaact ccgcccagtt ccgcccattc tccgcccacat ggctgactaa ttttttttat 180
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6
 <211> 32
 <212> DNA
 <213> Homo sapiens

<400> 6
gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
<211> 31
<212> DNA
<213> Homo sapiens

<400> 7
gcgaagcttc gcgactcccc ggatccgect c 31

<210> 8
<211> 12
<212> DNA
<213> Homo sapiens

<400> 8
ggggactttc cc 12

<210> 9
<211> 73
<212> DNA
<213> Homo sapiens

<400> 9
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
ccatctcaat tag 73

<210> 10
<211> 256
<212> DNA
<213> Homo sapiens

<400> 10
ctcgagggga ctttcccgga gactttccgg ggactttccg ggactttcca tctgccatct 60
caattagtc gcaaccatag tcccgccct aactccgcc atcccgcccc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt 256

<210> 11
<211> 1169
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1151)
<223> n equals a,t,g, or c

<220>
<221> SITE

aaatcatagt aaaacattat aaactaaaaa aaaaaaaaaa aaaaaaaaaa

1310

<210> 13
<211> 1139
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (968)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1139)
<223> n equals a,t,g, or c

<400> 13
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ccctcgagcg gtgcgggagc gcascagggt gtgcttgtgc ctggggccagc tggagaggtc 120
cattgcctgg gangaagtct gtcaacaaag tgacatgtct agtctgccgg aagggtgaca 180
atgatgagtt tcttctgctt tgtgatgggt gtraccgtgg ctgccacatt tactgccatc 240
gtcccaagat ggaggctgtc ccagaaggag atttggtctg tactgtctgt ttggctcagc 300
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gccgagaaag ccagcagca gggcctcggg actcggaaga agggctctcc ccctccaagc 480
ggcgggcgact ctctatgccc aaccaccaca gtgatctcac attttgccag attatcctga 540
tggagatgga gtcccatgat gcagcctggc ctttccctaga gcctgtgaac ccacgtttgg 600
tgagtgggta ccggcgcatc atcaaaaatc ctatggattt ttccaccatg cgggagcggc 660
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gcaagggagg tggggagtc ccttgtggca tctcccccca ccttccaaac aaaaacctgc 900
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aaagaaagaa aaaaawaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaan 1139

<210> 14
<211> 2271
<212> DNA
<213> Homo sapiens

<400> 14
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gctgagccgg cccagccgc caccgaccc cctctgctc cagcgtctgc cagggcccag 120

ctccctgtca	gacaagaccc	agctccacag	caggtggctg	gactcgtcgc	gggtgtctcat	180
gcagcagggc	atcaaggccg	gggacgcact	ctggctgcgc	ttcaagtact	acagcttctt	240
cgatttggat	cccaagacag	accccggtgcg	gctgacacag	ctgtatgagc	aggcccggtg	300
ggacctgctg	ctggaggaga	ttgactgcac	cgaggaggag	atgatgggtg	ttgccgccct	360
gcagtaccac	atcaacaagc	tgtcccagag	cggggagggtg	ggggagccgg	ctggcacaga	420
cccagggctg	gacgacctgg	atgtggccct	gagcaacctg	gaggtgaagc	tggagggtc	480
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gctcaacctc	aagggtctgtg	aggtgggtcc	cgatgttaac	gtctccggcc	agaagtcttg	720
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tctttcttgt	tactttttaa	aatttctttt	ttataaatta	atattttatt	gttggatcct	1860
cctcctttct	ctggagctgt	gcttggggct	actctgacac	tctgtctctt	catcaccagc	1920
caaggaaagg	ggcttttctg	ataaagacaa	gagttgggtt	gagaaaggga	cacctaaagtc	1980
agtctaggg	tggaagctag	gagagagggtg	agggcagaag	ggcacagctt	tcaggaacaa	2040
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tacttgggaa	ggaggaagcc	atcagtattc	cctggagtca	gaatcacccc	attggcagag	2160
cggaagaagg	gtattccatc	tgttgacaga	gccagagatg	tgactcatgc	cctccccgaa	2220
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<210> 15

<211> 626

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (591)

<223> n equals a,t,g, or c

<400> 15

acaacaaaca	tcgaaaatcg	antatgtgcc	ccgaaaagtc	ggaacgcagg	caatcagtc	60
gcacgmccgc	aagttcaaca	tgaagatgat	atgaggccgg	ggcggggggg	agggaccccc	120
ggcgggccgg	gcaggggaag	gggcctggcc	gccacctgct	cactctccag	tccttcccac	180
ctcctcccta	cccttctaca	cacgttctct	ttctccctcc	cgcctccgtc	ccctgctgcc	240

ccccgccagc	cctcaccacc	tgcctcctt	ctaccaggac	ctcagaagcc	cagacctggg	300
gacccacact	acacaggggc	attgacagac	tggagttgaa	agccgacgaa	ccgacacgcg	360
gcagagtcaa	taattcaata	aaaaagttac	gaactttctc	tgtaacttgg	gtttcaataa	420
ttatggattt	ttatgaaaac	ttgaaataat	aaaaagagaa	aaaaactatt	tcctatagct	480
agtcggaatg	caaacttttg	acgtcctgat	tgctccaggg	ccctctttcc	aactcagttt	540
cttggttttc	ctcttctctc	tcctcctctt	cttctcctct	tctttctctt	nccccatggg	600
ggaggggttc	attcagggaa	aacagg				626

<210> 16
 <211> 2118
 <212> DNA
 <213> Homo sapiens

<400> 16	
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cacatggaca	gaggcttga
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tgctctgcca	gcagcacaga
gcaggaggtg	aatgttcaact
aaagcgcag	ggcctgtgtc
gattgttctg	gatgaatgtc
ttccatacaa	ataactcagc
ttagaaggct	gccttctcat
ctttcttgcc	acagattgag
gttgggggca	gcctgtattt
tggtaaacca	tttgagtcct
gtgcattcag	aaagcatgct
ggaaccgtcc	tggagagagc
ccaggctgag	ggcgggtgtt
acgtggcctc	ttccgatact
gtcccatccc	aagaattgta
caggaccag	gcgcagagg
agctactggc	tcaaattcag
aaccgtgttt	gggttccagtt
tttttctttc	atttttctct
gcaaagctga	catgaacctt
gtttccttct	ggggtgggga
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gtttttcttt	ctttttggta
ctcctytggc	atccattttt
ccgtccgaag	gcattcttgt
agattcttcc	atctaaaaaa
ttaggaggcc	ctgaccttca
ttcctccctt	tggtcggttt
gtcctcgagg	ttgagcttca
acgtttctat	atatcttgaa
gtgtaaacag	tagacacca
taattttttt	gaaatatttg
aaaaaaactg	gagactag

<210> 17
 <211> 1076
 <212> DNA
 <213> Homo sapiens

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<220>  
<221> SITE  
<222> (979)  
<223> n equals a,t,g, or c
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<222> (1347)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1361)
 <223> n equals a,t,g, or c

<400> 18

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ggtgaccacc	atcgttctgg	gccgccgctt	cattgggtcc	atcgatgaagg	aggcctctca	120
gagggggaag	gtctccctct	ttcgctccat	cctgctgttc	ctcactcgct	tcaccgttct	180
cacggcaaca	ggctggagtc	tgtgccgac	cctcatccac	ctcttcagga	cctactcctt	240
cctgaacctc	ctgttcctct	gctatccgtt	tgggatgtac	attccgttcc	tgcacctgaa	300
ttkcgamcty	cgsaagacaa	gcctcttcaa	ccacatggcc	tccatggggc	cccgggaggg	360
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gcacasaaga	cagctgtatg	gcccggacgc	catgcccacc	catgcctgct	gcctgtcgcc	480
cagcctcatc	cgcagtgagg	tggagtctct	caagatggac	ttcaactggc	gcatgaagga	540
agtgtctgts	agctccatgc	tgagcgccca	ctatgtggcc	tttgtgcttg	tytggttcgt	600
gaagaacaca	cattactatg	acaagcgctg	gtcctgtgna	actcttctct	ctggtgtcca	660
tcagcacctc	cgtgatccct	atgcagcacc	tgctgcntgc	cagctactgt	gacctgctgc	720
acaaggccgc	cgcccatctg	ggctgttggc	agaagggtgga	cccagcgctg	tgctccaacg	780
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tggagggcgc	tgctattgtc	tatcagctgt	actccctaab	gtcctctgaa	aagtggcacc	1020
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gggaccgctt	ggtattgggc	aaggcctact	catactctgc	tagcccccag	agagacctgg	1140
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gctccctggc	aaggggctgt	tgggtagaag	tgggtgggtgg	ggggacaaaa	gacaaaaaaa	1260
tccaccagag	ctttgtatct	ttgttacgta	ctgtttcttt	gataattgat	gtgataagga	1320
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<210> 19
 <211> 1337
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> n equals a,t,g, or c

<400> 19

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ccaggaaagg	agcatccatt	cgacatcacg	gtgatgatcc	gggagaagaa	ccccgatggc	180
ttcctgtcgg	cagcggagat	gccccctttc	aagctctaca	tggatcatgtc	cgctgtcttc	240
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atccactggc	tcattggcggc	cttggccctc	accaagagca	tctctctcct	cttccacagc	360
atcaactact	acttcatcaa	cagccagggg	ccaccccatc	gaaggccttg	ccgkcatgta	420
ctacatcgca	cacctgctga	agggcgccct	cctcttctac	accatcgccc	tgattggctc	480
aggctgggct	tcataaagta	cgctcctgtc	gataaggaga	agaaggctct	tgggatcggt	540
atccccatgc	aggctcctggc	caacgtggcc	tacatcatca	tcgagtcctc	cgagggaaggc	600
gccacgaact	acgtgtctgt	gaaggagatt	ttgttccctg	tggacctcat	ctgctgtggt	660
gccatcctgt	tccccgtagt	ctggctccatc	cggcatctcc	aggatgcgtc	tggcacagac	720
gggaagggtg	cagtgaacct	ggccaagctg	aagctgttcc	ggcattacta	tgtcatgggtc	780

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<210> 20
<211> 1390
<212> DNA
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (1267)  
<223> n equals a,t,g, or c
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<210> 21
<211> 1431
<212> DNA
<213> Homo sapiens
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<400> 21
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ctcagtcctcc ctggcgagcg acgggcagaa atctcgaacc agtggagcgc actcgtaacc      120
tggatcccag aaggtcgcga aggcagtacc gtttcctcag cggcgggactg ctgcagtaag      180
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aatgtctttt	ccacctcatt	tgaatcgccc	tcccatggga	atcccagcac	teccaccagg	240
gatccacccc	cgcagtttc	caggatttcc	tccacctgta	cctccaggga	ccccaatgat	300
tcctgtacca	atgagcatta	tggctcctgc	tccaactgtc	ttagtaccca	ctgtgtctat	360
ggttggaag	catttgggcg	caagaaagga	tcatccaggc	ttaaaggcta	aagaaaatga	420
tgaaaattgt	ggtcctacta	ccactgtttt	tgttggcaac	atttccgaga	aagcttcaga	480
catgcttata	agacaactct	tagctaaatg	tggtttggtt	ttgagctgga	agagagtaca	540
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tcgcattcga	tcaagagaaa	aagcagaga	tcgtgaaagg	gaacgagagc	gggaaagaga	1380
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<210> 22

<211> 2539

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

 $\langle 222 \rangle \quad (1283)$

<223> n equals a,t,g, or c

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agccgccctc	cctatcttgc	tgctcctctt	ggcactcagg	ggcaccttc	atggagccag					180
accgggtgga	ggggccttctg	ggatttggtg	tctgctgctg	ccagagcagg	aacccccagt					240
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tttttccctt	taagcccaca	gattcaggtc	atgccaaaag	ctctctgggt	gtaacctgga					360
gacatgtgga	ggggaatggc	gatgggatta	taggactctc	cccatctcgg	gccctgacct					420
tgacccttgc	caccaacca	aagacagctg	gtgggtttcc	ccttgagam	aatctcgctg					480
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catcaccccg	cttcttgttg	ggcctcaggc	actggttacc	agaagggggt	ctgggtctgc					600
tcaggaatca	tgttttgtag	cacctcctgt	tggaggggtg	gagggatgtt	cccctgagcc					660
aggctgagac	tagaaccca	tcttccctga	gccaggctga	gactagaacc	ccatcttccc					720
caccacgcc	ccctgtgst	kgctacagga	gcacagtagt	gaaggcctga	gctccagggt					780
tgaaagaccc	aactggagcg	tggggcgggc	aggcaggggt	tagtgaaagg	acacttccag					840
ggttaggaca	gagcatttag	ccttctggaa	gaacccttgc	ctgggggtggg	actgtgcagg					900
ccagagaagg	tggcatgggc	ctgaaccac	ctggactgac	ttctgcactg	aagccacaga					960
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<210> 23

<211> 1041

<212> DNA

<213> Homo sapiens

<400> 23

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<210> 24

<211> 1962

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> SITE
 <222> (480)
 <223> n equals a,t,g, or c

<400> 24
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 ccccttgtkc acctatwtgt ggggatcagt gcatagtgtg tgtwaagcat ttaatacctg 300
 gcaagtgttc agcaaatttt ttgttctata tatttattat ttgattattg gccctgagga 360
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 gaccatcata cattaataatc caaaaaaaaa aaaaaaaaaa aa 1962

<210> 25
 <211> 1228
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (580)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (621)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1159)

<223> n equals a,t,g, or c

<400> 25

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<210> 26

<211> 1340

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (847)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1303)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1307)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1314)

<223> n equals a,t,g, or c

<400> 26

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atgagactaa	catgtatgaa	ggtgtaggaa	gaatgtttat	tcttcagtc	aaggaagcaa	240
ttcacagtca	gctgttagag	aagcagaaaa	tagcagaaga	aaaaattaaa	gaactagaac	300
agaaaaagtc	ctacctggag	cgacgttaaa	ggaagctgag	gacaacatcc	gggagatgct	360

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<210> 27
<211> 806
<212> DNA
<213> Homo sapiens
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[illegible]

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<210> 28
<211> 696
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (9)
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (21)
<223> n equals a,t,g, or c
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<400> 28
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ggagagcaga	ctgcaccctc	cagcaacaac	agatgaaagc	cagtgagcct	actaaccgtg	480
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tgcagtatac	gttgaactgt	tatgaacata	ccttcttatt	tctgttcttt	gaaaatgtca	600
gaaatatttt	ttcttttctc	attttatgtt	gaactaaaaa	ggattaaaaa	aaaaatctcc	660
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<210> 29
<211> 1007
<212> DNA
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (922)  
<223> n equals a,t,g, or c
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<210> 30
<211> 2026
<212> DNA
<213> Homo sapiens
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<400> 30						
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<210> 31
 <211> 699
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (28)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (44)
 <223> n equals a,t,g, or c

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tgtaagtttg	tgtgttttaa	cttttttttg	agcgagggaa	gaaaaagctg	tatgcatttc	540
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gaatgatctg aagtaattgt gctgtattta tgtttattca ccagtctttg attaaataaa 660
 aaggaaaacc agaaaaaaaa aaaaaaaaaa aaaaaaaaaa 699

<210> 32
 <211> 1264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1057)
 <223> n equals a,t,g, or c

<400> 32
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 tatagggtgag gaactgaggc atakagggtt cccagttga accaactgat aaatagtaga 180
 acttggattt taattcagtc ttgatgccag ggataaggct cttactttct accttaggct 240
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 gttgtcatcc cacacatctc caggggagmct gggctcttga tcttggscctc ttccccttta 420
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 atgccttagc tcctctgtct gcactccaga actgcctgac ttcatttcgt atgttgctct 540
 ttgttttgac aattgatcca tgtcccagtc cgtctcttct tcttcttga tacttacact 600
 gcttctttct gttggtttcc agtgtttaac actgtatata acagtgaaga caacgtgttt 660
 gtggggggccc ccacgggcag cggaagact atttgtgcag agtttgccat cctgcgaatg 720
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 aaaaaaaaaa aaaaactcga gggggggccc ggtacccaat tcgccctata gtgatcgtat 1260
 taca 1264

<210> 33
 <211> 997
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (855)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (881)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (916)
 <223> n equals a,t,g, or c

$\langle 220 \rangle$

<400> 33

<210> 34

 $\langle 220 \rangle$

<400> 34

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atactctatt	gagggatcga	gatgagcttt	aaaaacttga	aaaacagttt	gtaagccttt	1440
caacagcagc	atcaacctac	gtgggtggaaa	tagtaaacct	atattttcat	aattctatgt	1500
gtatttttat	tttgaataaa	cagaaagaaa	ttttgggttt	ttaatttttt	tctccccgac	1560
tcaaaatgca	ttgtcattta	atatagtagc	ctcttaaaaa	aaaaaaaaac	ctgctaggat	1620
ttaaaaataa	aaatcagagg	cctatctcca	ctttaaatct	gtcctgtaaa	agttttataa	1680
atcaaatgaa	agggtgacatt	gccagaaact	taccattaac	ttgcactact	agggtaggga	1740
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<210> 35

<211> 1020

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1014)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1015)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1018)

<223> n equals a,t,g, or c

<400> 35

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taaattgacc	atgcatataa	tattctttgt	ttaaatagaa	gcatactggt	gaaacccgca	180
gtgttgcat	tagaaaacag	ttgaacagaa	tgtcaatgtg	cattcatgca	aaaaaacatt	240
taatctgcat	ctgttttaga	aaagggggaa	atgaagcaac	ttgtctaaaa	atactgcttt	300
acaaagcatt	tcagcctttc	cccctcagtt	ttgcattgat	tttttgacaa	gtctgtagag	360
cctaataggt	tccatcaaag	gcctagatct	cttatttagc	atttttttca	gctcttctct	420
cagaagttca	gctgttgaaa	cgaaaactgt	actttgtacc	ctcacatata	aagggatcaa	480
atgtgacctg	gtgttatatt	agccccaaat	ttatgaacatt	acacaatatt	aaaatgtaaa	540
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tctaggtcct	ttgtctagaa	aggaaatttg	cctcagttga	attagtgaag	tattttctgtc	720
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acaaactatc	ctttctccac	catggactca	atctgagaac	aacagcattc	atttccattc	900
atttccatac	tggcttttga	ttatatgcag	attcctagta	gcatgcctta	cctacagcac	960
tatgtgcatt	tgctgtcaca	ataaagtata	ttttgtcttg	caaaaaaaaa	aaannaangg	1020

<210> 36
 <211> 781
 <212> DNA
 <213> Homo sapiens

<400> 36						
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ragccactgc	gcctgggtga	tcccagcact	tttmaaata	tgccgctcaa	agccgtgact	120
tggcctactt	tgaacagcaa	acttggtgct	gctgttgta	acctgaaggc	ctctcaaatg	180
ccagcttcaa	gcaggggtgt	aattggccag	tgtcagatct	caggagtcct	gtgttgagag	240
tgtggctttc	agctgcgggg	agctgcactt	ggtggggaaa	gccaggcagg	tcacctcac	300
agccagataa	tgtggagggt	agaacccaag	gaagggtgtg	agacctccac	tcccagtggg	360
ggacctggcc	acctatcctt	ggggacctga	gaaagcgtac	ttcaccttgg	ggtgaaggct	420
gggtggggcc	agagggacca	gtgccctcct	cagtgccttag	gggcagagcc	acctgcagca	480
atggtatctg	catattagcc	cctctccacc	ttctttctcc	cgctgaatca	ttccctcaa	540
agcccaagag	ctgtcactgc	ttctttctcc	ctgggaagaa	tgctgtggact	ctgcctggtg	600
atagactgaa	gccagaacag	tgccacaccc	tcgccttaat	tccttgctag	gtgttctcag	660
atztatgaga	cttcttagtc	aaatatgagg	gaggttggat	gtggtggctt	gtgcctgtaa	720
tcccagcatt	ttgggaagcc	gaggtgggag	gatcccttga	agccaggagt	ttgagacaag	780
c						781

<210> 37
 <211> 966
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (586)
 <223> n equals a,t,g, or c

<400> 37						
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ttgaatttga	tatgatgtat	atatattcac	ctctagtcca	taggtacata	tagtctatat	180
attaaaaaga	cattggattt	tgacttaaac	tagatgtttc	tcaagcacac	caagacgggtg	240
ctagagcctg	ggtttggcca	gagaattggg	tcccggtcag	aagtgagtgg	ggatggctgg	300
cgagcaaggt	gtctgtaggg	cagcacagga	tgtctggtga	gcagacagca	agcttctgtc	360
ctgccccgag	tgctgaggag	cgagggtgact	gcctacatgg	tgatgsaaag	atttgggcac	420
gcttccggct	ttcaggccaa	acaacctcgc	ttgctccatg	gcaccactga	tcccagcagt	480
ggccccgagg	agctccttcc	tgctgtctca	tgctctgaca	ctttgggggg	ctcctttccc	540
caccacgtgg	gtctcctgtc	agcctcgaa	tgctcctgcg	ccctcncctg	tacggcccagg	600
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tgcccagctt	ctgggtcccc	cacctgtggc	ccaggggaagg	ctctttgttc	ctcagcccca	780
agctgtatct	ggtgagaaca	gatgcgtagt	cccggagctc	aagttctggg	aagggcagtg	840
cccttttctg	tggggccctg	ggcttgttct	gcattgtttc	aagaggagct	gccactcaaa	900

```
<210> 38
<211> 416
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (395)
<223> n equals a,t,g, or c
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tcagtagctc	tacgcgttga	ctgggtgggt	tgaratggct	ggtatacaca	gggctttctt		180
ggtgtttctgt	ctctggggct	taccttttgt	tgtggttgga	gggcctgggt	gagattggaa		240
gtaccagaga	gtgctgtgtc	aggggcagag	gggcctgtcg	ctggagctgg	aggggtgctg		300
ccttttgtgtc	tgactcgttc	tctgtctgtc	cttgccccc	caggggtctcg	ccagcccagc		360
ctctgtggga	atctaaaagg	artggatgtg	gacgtktgac	caagcacatc	tcagctttta		416
atacctgggc	tatttataga	cctttggggg	gaatngcttg	tggaaacaaca	agggtt		

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<210> 39
<211> 1114
<212> DNA
<213> Homo sapiens
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<400> 39									
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ttcgaatgta	atatatgttt	ggagactgct	cgggaagctg	tggtcagttg	gtgtggccac				240
ctgtactgtt	ggccatgtct	tcatcagttg	ctggagacac	ggccagaacg	gcaagagtgt				300
ccagtatgta	aagctgggat	cagcagagag	aaggttgtcc	cgctttatgg	gcgagggagc				360
cagaagcccc	aggatcccg	attaaaaact	ccaccccgcc	cccagggcca	gagaccagct				420
cgggagagca	gagggggatt	ccagccattt	ggtgataccg	ggggcttcca	cttctcattt				480
ggtgttggtg	cttttccctt	tggctttttc	accaccgtct	tcaatgcccc	tgagcctttc				540
gcgcggggta	caggtgtgga	tctgggacag	ggtcaccacg	cctccagctg	gcaggattcc				600
ctcttctctgt	ttctcgccat	cttcttcttt	ttttggctgc	tcagtatttg	agctatgtct				660
gcttctctgcc	cacctccagc	cagagaagaa	tcagtattga	gggtccctgc	tgacccttcc				720
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gaatgtcttt	ctcctctctc	aagtcctttg	tttccctgat	ttcttgattt	gatcttcaaa				960
ggtgggcaaa	gttccctctg	actcttcccc	cactccccat	cttactgatt	taattttaatt				1020
tttctactcc	cagagtctaa	tatggattct	gactcttaag	tgcttccgcc	ccctcactac				1080
ctcctttaat	acaaattcaa	taaaaaaggt	gaaatataaa	aaaaaaaaaa	aaaaaacycg				1114
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```
<210> 40
<211> 602
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE

<222> (597)

<223> n equals a,t,g, or c

<400> 40

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gaatgaatgc	tgtctgtgtg	gaacaagcgt	cgcaatgagg	actctctaca	ggacccgata	180
tggcatccct	ggatctatct	gtgatgacta	tatggcaact	ctttgctgtc	ctcattgtac	240
tctttgccaa	atcaagagag	atatcaacag	aaggagagcc	atgcgtactt	tctaaaaact	300
gatggtgaaa	agctcttacc	gaagcaacaa	aattcagcag	acacctcttc	agcttgagtt	360
cttcaccatc	ttttgcaact	gaaatatgat	ggatatgctt	aagtacaact	gatggcatga	420
aaaaaatcaa	atTTTTtgatt	tattataaat	gaatgttgct	cctgaactta	gctaaatggt	480
gcaacttagt	ttctccttgc	tttcatatta	tccaatttcc	tggcttataa	acttttttaa	540
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ca						602

<210> 41

<211> 970

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> n equals a,t,g, or c

<400> 41

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attcttscag	cttcttctag	tgttgttatt	tccagaatgg	ccaacacccc	tacattgata	180
cataaacaca	ttccaaggcc	ttgtgtaata	caaagttcac	cgctctcctg	gaataggagc	240
cctgggttct	agttctcact	ctgccactgg	gggaaaatcc	aattaaagtc	tggtttagtc	300
agcttggtgc	accatagact	gggtggctta	aacagcagac	atctatttct	ggtagtttct	360
ggaggctaca	aatctaagag	caaggtgcca	gcatggtcac	attctggtga	gggscctctt	420
cctggcttgt	agacggctgc	yttctcaccg	tgtgctcaca	tagcctttcg	tgtgtgtgtg	480
tgtgtgtgtg	tgcgtkcgtg	caagcttcek	gatgtctctt	cttagaagga	caccaacccc	540
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gagattcttt	ctagccttta	tcatttataa	ttctgtgaga	tgtagatttg	cattattttc	780
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caaaagagac						970

<210> 42

<211> 1002

<212> DNA

<213> Homo sapiens

<400> 42

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gggacctggt	acgtgaaggc	catggtggtc	gataagactt	tccggagaca	ggaggcccag	180
aaggtgtccc	cagtgaagg	gacagccctg	ggcggtgga	agttggaagc	cacgttcacc	240
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ggcaaataca	ggcctgtga	gcccccccc	caytccccacc	cccacccytcc	cccaccgcca	360
acccccagtgc	accagcctcc	acaggtagag	agtgtcccagg	ctgcccccttt	gccagggccc	420
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gaccacctgg	acctaccctc	cagccatgac	ccttcctctg	tcccaccac	ctgactccaa	960
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<210> 43

<211> 2581

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1591)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1703)

<223> n equals a,t,g, or c

<400> 43

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attggcagag	cggagaagag	gtattccatc	tgctgacaga	gccagagatg	tgactcatgc	2520
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<210> 44

<211> 796

<212> DNA

<213> Homo sapiens

<400> 44

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gcctctcccc	ttcaactcag	ctggcccccc	gcacctgaag	tgacacaggag	cggggaagag	300
agtctggagc	ccaccccgga	gggcagcaca	ggaggtgtct	ytgcagctgg	tgtcctgcma	360
cccytgcagg	cagmacacgt	cccgggcatt	ytcyttagcc	acagacagaa	cagccagtgc	420
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cggcgtcccc	ggagcccggc	tcccaggcct	ctcgttttcc	cctacctccc	taagactttt	660
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<210> 45

<211> 2017

<212> DNA

<213> Homo sapiens

<400> 45

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gcctgggctg	gaacgacct	gacagaatgt	tgctgcggga	tgtaaaagct	cttacctctc	300
actatgaccg	ctataccacc	tcccgcagct	ggatcccatc	ccacagttga	aatgtgttgg	360
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gtattcttatt	atthgaggct	aaaagttgat	gtgtgacaaa	atactattgt	gttgtatgtc	1380
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aacaaaagtc	ttttaataac	aaaagcatgc	agttctctgt	gaaatctcaa	atattgttgt	1920
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaa			2017

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<210> 46
<211> 981
<212> DNA
<213> Homo sapiens
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[illegible]

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<210> 47
<211> 146
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (146)
<223> Xaa equals stop translation
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<400> 47

Met His Tyr Gln Met Ser Val Thr Leu Lys Tyr Glu Ile Lys Lys Leu
 1 5 10 15
 Ile Tyr Val His Leu Val Ile Trp Leu Leu Val Ala Lys Met Ser
 20 25 30
 Val Gly His Leu Arg Leu Leu Ser His Asp Gln Val Ala Met Pro Tyr
 35 40 45
 Gln Trp Glu Tyr Pro Tyr Leu Leu Ser Ile Leu Pro Ser Leu Leu Gly
 50 55 60
 Leu Leu Ser Phe Pro Arg Asn Asn Ile Ser Tyr Leu Val Leu Ser Met
 65 70 75 80
 Ile Ser Met Gly Leu Phe Ser Ile Ala Pro Leu Ile Tyr Gly Ser Met
 85 90 95
 Glu Met Phe Pro Ala Ala Gln Pro Ser Thr Ala Met Ala Arg Pro Thr
 100 105 110
 Val Ser Ser Leu Val Phe Leu Pro Phe Pro Ser Cys Thr Trp Cys Trp
 115 120 125
 Cys Trp Gln Cys Lys Cys Met Pro Gly Ser Cys Thr Thr Ala Arg Ser
 130 135 140
 Ser Xaa
 145

<210> 48

<211> 312

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (312)

<223> Xaa equals stop translation

<400> 48

Met Asn Ser Val Val Ser Leu Leu Leu Ile Leu Glu Pro Asp Lys Gln
 1 5 10 15
 Glu Ala Leu Ile Glu Ser Leu Cys Glu Lys Leu Val Lys Phe Arg Glu
 20 25 30
 Gly Glu Arg Pro Ser Leu Arg Leu Gln Leu Leu Ser Asn Leu Phe His
 35 40 45
 Gly Met Asp Lys Asn Thr Pro Val Arg Tyr Thr Val Tyr Cys Ser Leu
 50 55 60
 Ile Lys Val Ala Ala Ser Cys Gly Ala Ile Gln Tyr Ile Pro Thr Glu
 65 70 75 80

Phe Thr Ala Ile Val Pro Arg Trp Arg Leu Ser Gln Lys Glu Ile Gly
20 25 30

Ser Val Leu Ser Val Trp Leu Ser Arg Trp Arg Glu Asn Ser Leu Arg
 35 40 45

Ser Leu Val Ser Gln Ser Val Ala Arg Ser Gly Lys Val Val Ile Arg
 50 55 60

<210> 50
 <211> 467
 <212> PRT
 <213> Homo sapiens

<400> 50

Met Leu Ser Arg Pro Gln Pro Pro Pro Asp Pro Leu Leu Leu Gln Arg
 1 5 10 15

Leu Pro Arg Pro Ser Ser Leu Ser Asp Lys Thr Gln Leu His Ser Arg
 20 25 30

Trp Leu Asp Ser Ser Arg Cys Leu Met Gln Gln Gly Ile Lys Ala Gly
 35 40 45

Asp Ala Leu Trp Leu Arg Phe Lys Tyr Tyr Ser Phe Phe Asp Leu Asp
 50 55 60

Pro Lys Thr Asp Pro Val Arg Leu Thr Gln Leu Tyr Glu Gln Ala Arg
 65 70 75 80

Trp Asp Leu Leu Leu Glu Glu Ile Asp Cys Thr Glu Glu Glu Met Met
 85 90 95

Val Phe Ala Ala Leu Gln Tyr His Ile Asn Lys Leu Ser Gln Ser Gly
 100 105 110

Glu Val Gly Glu Pro Ala Gly Thr Asp Pro Gly Leu Asp Asp Leu Asp
 115 120 125

Val Ala Leu Ser Asn Leu Glu Val Lys Leu Glu Gly Ser Ala Pro Thr
 130 135 140

Asp Val Leu Asp Ser Leu Thr Thr Ile Pro Glu Leu Lys Asp His Leu
 145 150 155 160

Arg Ile Phe Arg Pro Arg Lys Leu Thr Leu Lys Gly Tyr Arg Gln His
 165 170 175

Trp Val Val Phe Lys Glu Thr Thr Leu Ser Tyr Tyr Lys Ser Gln Asp
 180 185 190

Glu Ala Pro Gly Asp Pro Ile Gln Gln Leu Asn Leu Lys Gly Cys Glu
 195 200 205

Val Val Pro Asp Val Asn Val Ser Gly Gln Lys Phe Cys Ile Lys Leu
 210 215 220

Leu Val Pro Ser Pro Glu Gly Met Ser Glu Ile Tyr Leu Arg Cys Gln
 225 230 235 240
 Asp Glu Gln Gln Tyr Ala Arg Trp Met Ala Gly Cys Arg Leu Ala Ser
 245 250 255
 Lys Gly Arg Thr Met Ala Asp Ser Ser Tyr Thr Ser Glu Val Gln Ala
 260 265 270
 Ile Leu Ala Phe Leu Ser Leu Gln Arg Thr Gly Ser Gly Gly Pro Gly
 275 280 285
 Asn His Pro His Gly Pro Asp Ala Ser Ala Glu Gly Leu Asn Pro Tyr
 290 295 300
 Gly Leu Val Ala Pro Arg Phe Gln Arg Lys Phe Lys Ala Lys Gln Leu
 305 310 315 320
 Thr Pro Arg Ile Leu Glu Ala His Gln Asn Val Ala Gln Leu Ser Leu
 325 330 335
 Ala Glu Ala Gln Leu Arg Phe Ile Gln Ala Trp Gln Ser Leu Pro Asp
 340 345 350
 Phe Gly Ile Ser Tyr Val Met Val Arg Phe Lys Gly Ser Arg Lys Asp
 355 360 365
 Glu Ile Leu Gly Ile Ala Asn Asn Arg Leu Ile Arg Ile Asp Leu Ala
 370 375 380
 Val Gly Asp Val Val Lys Thr Trp Arg Phe Ser Asn Met Arg Gln Trp
 385 390 395 400
 Asn Val Asn Trp Asp Ile Arg Gln Val Ala Ile Glu Phe Asp Glu His
 405 410 415
 Ile Asn Val Ala Phe Ser Cys Val Ser Ala Ser Cys Arg Ile Val His
 420 425 430
 Glu Tyr Ile Gly Gly Tyr Ile Phe Leu Ser Thr Arg Glu Arg Ala Arg
 435 440 445
 Gly Glu Glu Leu Asp Glu Asp Leu Phe Leu Gln Leu Thr Gly Gly His
 450 455 460
 Glu Ala Phe
 465

<210> 51
 <211> 83
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (83)

<223> Xaa equals stop translation

<400> 51

Met	Arg	Pro	Gly	Arg	Gly	Ala	Gly	Thr	Pro	Gly	Arg	Pro	Gly	Arg	Gly
1				5					10				15		
Arg	Gly	Leu	Ala	Ala	Thr	Cys	Ser	Leu	Ser	Ser	Pro	Ser	His	Leu	Leu
			20					25					30		
Pro	Thr	Leu	Leu	His	Thr	Phe	Ser	Phe	Ser	Leu	Pro	Pro	Pro	Ser	Pro
		35					40					45			
Ala	Ala	Pro	Arg	Gln	Pro	Ser	Pro	Pro	Ala	Leu	Leu	Pro	Gly	Pro	
		50				55					60				
Gln	Lys	Pro	Arg	Pro	Gly	Asp	Pro	Thr	Tyr	Thr	Gly	Ala	Leu	Thr	Asp
	65					70				75					80

Trp Ser Xaa

<210> 52

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals stop translation

<400> 52

Met	Phe	Leu	Val	Phe	Phe	Leu	Ser	Phe	Phe	Ser	His	Ser	Ile	Ser	Ala
1				5					10					15	
Leu	Thr	Leu	Val	Cys	Ser	Gln	Gly	Gly	Lys	Ala	Asp	Met	Asn	Leu	Leu
			20					25					30		
Ser	Trp	Asp	Phe	Arg	Pro	His	Trp	Leu	Glu	Gly	Ile	Arg	Phe	Leu	Leu
		35					40					45			
Gly	Trp	Gly	Gln	Ala	Leu	Met	Ala	Gly	Leu	Phe	Pro	Trp	Leu	Xaa	
		50				55					60				

<210> 53

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<223> Xaa equals stop translation

Met Arg Gly Ser Trp His Arg Ser Pro Leu Pro Ala Val Val Leu Pro
1 5 10 15

Ser Val Leu Gln Thr Ala Leu Ser Pro Leu Ala Leu Cys Gln Ala Trp
20 25 30

Arg Arg Ala Val Pro His Gly Val Pro Ser Gln Arg Leu Arg Asn Gln
35 40 45

Glu Ala Ser Leu Val Pro Lys Gly Val Pro Arg Ala Trp Tyr Pro Gly
50 55 60

Pro Leu Gln Asn Gly Leu Trp Thr His Leu Glu Lys Gly Glu Leu Leu
65 70 75 80

Gly Leu Lys Pro Thr Pro Gly Gly Leu Leu Leu Leu Arg Ser Phe Trp
85 90 95

Asp Pro His Pro Ser Arg Pro Phe Leu Cys Thr Leu Leu Pro Pro Pro
100 105 110

Leu Xaa Ile Phe Pro Pro Leu Arg Cys Ser Ala Xaa
115 120

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals stop translation

<400> 54

Met Thr Ser Ala Gly Pro Val Xaa Leu Phe Leu Leu Val Ser Ile Ser
1 5 10 15

Thr Ser Val Ile Leu Met Gln His Leu Leu Xaa Ala Ser Tyr Cys Asp
20 25 30

Leu Leu His Lys Ala Ala Ala His Leu Gly Cys Trp Gln Lys Val Asp
35 40 45

Pro Ala Leu Cys Ser Asn Val Leu Gln His Pro Trp Thr Glu Glu Cys
50 55 60

Met Trp Pro Gln Gly Val Leu Val Lys His Ser Lys Asn Val Tyr Lys
65 70 75 80

Ala Val Gly Xaa Xaa Xaa Val Ala Ile Pro Ser Asp Val Ser His Phe
85 90 95

Arg Phe Xaa Phe Phe Phe Ser Lys Pro Leu Arg Ile Leu Asn Ile Leu
100 105 110

Leu Leu Leu Glu Gly Ala Val Ile Val Tyr Gln Leu Tyr Ser Leu Met
115 120 125

Ser Ser Glu Lys Trp His Gln Thr Ile Ser Leu Ala Leu Ile Leu Phe
130 135 140

Ser Asn Tyr Tyr Ala Phe Phe Lys Leu Leu Arg Asp Arg Leu Val Leu
145 150 155 160

Gly Lys Ala Tyr Ser Tyr Ser Ala Ser Pro Gln Arg Asp Leu Asp His
165 170 175

Arg Phe Ser Xaa
180

<210> 55

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (287)

<223> Xaa equals stop translation

<400> 55

Met	Pro	Leu	Phe	Lys	Leu	Tyr	Met	Val	Met	Ser	Ala	Cys	Phe	Leu	Ala
1				5					10					15	

Ala	Gly	Ile	Phe	Trp	Val	Ser	Ile	Leu	Cys	Arg	Asn	Thr	Tyr	Ser	Val
		20						25					30		

Phe	Lys	Ile	His	Trp	Leu	Met	Ala	Ala	Leu	Ala	Phe	Thr	Lys	Ser	Ile
		35					40					45			

Ser	Leu	Leu	Phe	His	Ser	Ile	Asn	Tyr	Tyr	Phe	Ile	Asn	Ser	Gln	Gly
	50					55						60			

Pro	Pro	His	Arg	Arg	Pro	Cys	Arg	His	Val	Leu	His	Arg	Thr	Pro	Ala
65						70				75					80

Glu	Gly	Arg	Pro	Pro	Leu	His	His	His	Arg	Pro	Asp	Trp	Leu	Arg	Leu
				85					90					95	

Gly	Phe	Ile	Lys	Tyr	Val	Leu	Ser	Asp	Lys	Glu	Lys	Lys	Val	Phe	Gly
			100					105					110		

Ile	Val	Ile	Pro	Met	Gln	Val	Leu	Ala	Asn	Val	Ala	Tyr	Ile	Ile	Ile
		115					120					125			

Glu	Ser	Arg	Glu	Glu	Gly	Ala	Thr	Asn	Tyr	Val	Leu	Trp	Lys	Glu	Ile
	130					135					140				

Leu	Phe	Leu	Val	Asp	Leu	Ile	Cys	Cys	Gly	Ala	Ile	Leu	Phe	Pro	Val
145					150					155					160

Val	Trp	Ser	Ile	Arg	His	Leu	Gln	Asp	Ala	Ser	Gly	Thr	Asp	Gly	Lys
				165					170					175	

Val	Ala	Val	Asn	Leu	Ala	Lys	Leu	Lys	Leu	Phe	Arg	His	Tyr	Tyr	Val
			180					185					190		

Met	Val	Ile	Cys	Tyr	Val	Tyr	Phe	Thr	Arg	Ile	Ile	Ala	Ile	Leu	Leu
	195						200					205			

Gln	Val	Ala	Val	Pro	Phe	Gln	Trp	Gln	Trp	Leu	Tyr	Xaa	Leu	Leu	Val
	210					215					220				

Glu	Gly	Ser	Thr	Leu	Ala	Phe	Phe	Val	Leu	Thr	Gly	Tyr	Lys	Phe	Gln
225					230					235					240

Pro	Thr	Gly	Asn	Asn	Pro	Tyr	Leu	Gln	Leu	Pro	Gln	Glu	Asp	Glu	Glu
				245					250					255	

Asp	Val	Gln	Met	Glu	Gln	Val	Met	Thr	Asp	Ser	Gly	Phe	Arg	Glu	Gly
			260					265					270		

Leu Ser Lys Val Asn Lys Thr Ala Ser Gly Arg Glu Leu Leu Xaa
 275 280 285

<210> 56
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals stop translation

<400> 56
 Met Pro Met Val Phe Leu Leu Leu Phe Asn Leu Met Ser Trp Leu Ile
 1 5 10 15

Arg Asn Ala Arg Val Ile Leu Arg Ser Leu Asn Leu Lys Arg Asp Gln
 20 25 30

Val Xaa

<210> 57
 <211> 24
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals stop translation

<400> 57
 Met Lys Ile Val Val Leu Leu Pro Leu Phe Leu Leu Ala Thr Phe Pro
 1 5 10 15

Arg Lys Leu Gln Thr Cys Leu Xaa
 20

<210> 58
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals stop translation

<400> 58
 Met Ser Gly Gly Glu Gly Ala Ala Leu Pro Ile Leu Leu Leu Leu Leu
 1 5 10 15

Ala Leu Arg Gly Thr Phe His Gly Ala Arg Pro Gly Gly Gly Ala Ser

20 25 30

Gly Ile Trp Cys Leu Leu Leu Pro Glu Gln Glu Pro Pro Val Xaa
 35 40 45

<210> 59
 <211> 114
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals stop translation

<400> 59
 Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly
 1 5 10 15

Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly
 20 25 30

Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys
 35 40 45

Cys Met Asp Cys Ala Ser Cys Arg Ala Arg Pro His Ser Asp Phe Cys
 50 55 60

Leu Gly Cys Ala Ala Ala Pro Pro Ala Pro Phe Arg Leu Leu Trp Pro
 65 70 75 80

Ile Leu Gly Gly Ala Leu Ser Leu Thr Phe Val Leu Gly Leu Leu Ser
 85 90 95

Gly Phe Leu Val Trp Arg Arg Cys Arg Arg Glu Arg Ser Ser Pro Pro
 100 105 110

Pro Xaa

<210> 60
 <211> 32
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals stop translation

<400> 60

<400> 62
Met Ala Ala Pro Val Asp Leu Glu Leu Lys Lys Ala Phe Thr Glu Leu
1 5 10 15

Gln Ala Lys Val Ile Asp Thr Gln Gln Lys Val Lys Leu Ala Asp Ile
20 25 30

Gln Ile Glu Gln Leu Asn Arg Thr Lys Lys His Ala His Leu Thr Asp
35 40 45

Thr Glu Ile Met Thr Leu Val Asp Glu Thr Asn Met Tyr Glu Gly Val
50 55 60

Gly Arg Met Phe Ile Leu Gln Ser Lys Glu Ala Ile His Ser Gln Leu
65 70 75 80

Leu Glu Lys Gln Lys Ile Ala Glu Glu Lys Ile Lys Glu Leu Glu Gln
85 90 95

Lys Lys Ser Tyr Leu Glu Arg Arg
100

<210> 63
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (146)
<223> Xaa equals stop translation

<400> 63

Met Pro Ser Gly Phe Gln Thr Cys Leu Leu Phe Thr Leu Ser Pro Phe
1 5 10 15

Ser Leu Ser Lys Ile Val Gly Val Pro Ser Gln Gln Leu Pro Gly Gln
20 25 30

Leu Ser Glu Gln Gly Gly Leu Cys Gly His Glu Gly Glu Pro Ala Arg
35 40 45

Thr Val Pro Glu Thr Gln Leu Pro Leu Pro Phe Asn Ser Ala Gly Pro
50 55 60

Pro His Leu Lys Cys Thr Gly Ala Gly Lys Arg Val Trp Ser Pro Pro
65 70 75 80

Arg Arg Ala Ala Gln Glu Val Ser Leu Gln Leu Val Ser Cys His Pro
85 90 95

Cys Arg Gln His Thr Ser Arg Ala Phe Ser Leu Ala Thr Asp Arg Thr
100 105 110

Ala Ser Ala Arg Val Cys Cys Arg Ser Pro Leu Ser Thr Leu Ile His
115 120 125

His Thr Arg Gly Gly Gln Arg Cys Arg Glu His Gly Leu Ser Leu Pro
130 135 140

Leu Xaa
145

<210> 64
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals stop translation

<400> 64
Met Ala Ile Leu Met Leu Leu Ala Gly Ser Pro Cys Thr Leu Ser Phe
1 5 10 15
Ser Thr Asp Thr Gly Ser Ser Ala Pro Gly Pro Lys Ile Pro Xaa
20 25 30

<210> 65
<211> 260
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (260)
<223> Xaa equals stop translation

<400> 65
Met Asp Pro Gln Gly Gln Thr Leu Leu Leu Phe Leu Phe Val Asp Phe
1 5 10 15
His Ser Ala Phe Pro Val Gln Gln Met Glu Ile Trp Gly Val Tyr Thr
20 25 30
Leu Leu Thr Thr His Leu Asn Ala Ile Leu Val Glu Ser His Ser Val
35 40 45
Val Gln Gly Ser Ile Gln Phe Thr Val Asp Lys Val Leu Glu Gln His
50 55 60
His Gln Ala Ala Lys Ala Gln Gln Lys Leu Gln Ala Ser Leu Ser Val
65 70 75 80
Ala Val Asn Ser Ile Met Ser Ile Leu Thr Gly Ser Thr Arg Ser Ser
85 90 95
Phe Arg Lys Met Cys Leu Gln Thr Leu Gln Ala Ala Asp Thr Gln Glu
100 105 110
Phe Arg Thr Lys Leu His Lys Val Phe Arg Glu Ile Thr Gln His Gln
115 120 125
Phe Leu His His Cys Ser Cys Glu Val Lys Gln Leu Thr Leu Glu Lys

130 135 140
 Lys Asp Ser Ala Gln Gly Thr Glu Asp Ala Pro Asp Asn Ser Ser Leu
 145 150 155 160
 Glu Leu Leu Ala Asp Thr Ser Gly Gln Ala Glu Asn Lys Arg Leu Lys
 165 170 175
 Arg Gly Ser Pro Arg Ile Glu Glu Met Arg Ala Leu Arg Ser Ala Arg
 180 185 190
 Ala Pro Ser Pro Ser Glu Ala Ala Pro Arg Arg Pro Glu Ala Thr Ala
 195 200 205
 Ala Pro Leu Thr Pro Arg Gly Arg Glu His Arg Glu Ala His Gly Arg
 210 215 220
 Ala Leu Ala Pro Gly Arg Ala Ser Leu Gly Ser Arg Leu Glu Asp Val
 225 230 235 240
 Leu Trp Leu Gln Glu Val Ser Asn Leu Ser Glu Trp Leu Ser Pro Ser
 245 250 255
 Pro Gly Pro Xaa
 260

<210> 66
 <211> 339
 <212> PRT
 <213> Homo sapiens

<400> 66
 Met Ala Ala Ala Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu Leu
 1 5 10 15
 Gly Leu His Leu Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly Trp Asn
 20 25 30
 Asp Pro Asp Arg Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His
 35 40 45
 Tyr Asp Arg Tyr Thr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu
 50 55 60
 Lys Cys Val Gly Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val
 65 70 75 80
 Ile Gln Cys Gln Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu
 85 90 95
 Cys Lys Thr Asp Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val
 100 105 110
 Ser Cys Glu Gly Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly
 115 120 125
 Ser Cys Gly Leu Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln


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<210> 67
<211> 27
<212> PRT
<213> Homo sapiens
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<400> 67
Met His Ala Leu Ile Leu Gln Phe Ile Phe Ser Leu Cys Met Tyr Ile
      1             5             10             15
```

Ser Leu Phe Ser Ala Ala Arg Phe Leu Phe Xaa
20 25

<210> 68
 <211> 76
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 68
 Met Ser Gln Ser Val Ser Ser Ser Phe Leu Ile Leu Thr Leu Leu Leu
 1 5 10 15
 Ser Val Gly Phe Gln Cys Leu Thr Leu Tyr Thr Thr Val Thr Thr Thr
 20 25 30
 Cys Leu Trp Gly Pro Pro Arg Ala Ala Gly Arg Leu Phe Val Gln Ser
 35 40 45
 Leu Pro Ser Cys Glu Cys Cys Cys Arg Ala Arg Arg Gly Ala Val Xaa
 50 55 60
 Xaa Ser Pro Pro Trp Arg Pro Trp Pro Glu Gln Val
 65 70 75

<210> 69
 <211> 216
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals stop translation

<400> 69
 Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys
 1 5 10 15
 Leu Gln Leu Thr His Ser Cys Lys Ile Tyr Arg Ile Gln Glu Pro Gly
 20 25 30
 Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile
 35 40 45
 Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser
 50 55 60
 Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His

65		70		75		80									
Leu	Leu	Thr	Asn	Phe	Ile	Cys	Val	Ala	Ile	Phe	Leu	Asn	Phe	Ser	Ala
			85						90					95	
Ile	Ile	Leu	Ile	Ser	Asn	Cys	Leu	Val	Ile	Arg	Gln	Leu	Tyr	Arg	Asn
		100						105					110		
Lys	Asp	Asn	Glu	Asn	Tyr	Pro	Asn	Val	Lys	Lys	Ala	Leu	Ile	Asn	Ile
	115						120					125			
Leu	Leu	Val	Thr	Thr	Gly	Tyr	Ile	Ile	Cys	Phe	Val	Pro	Tyr	His	Ile
	130					135					140				
Val	Arg	Ile	Pro	Tyr	Thr	Leu	Ser	Gln	Thr	Glu	Val	Ile	Thr	Asp	Cys
145					150					155					160
Ser	Thr	Arg	Ile	Ser	Leu	Phe	Lys	Ala	Lys	Glu	Ala	Thr	Leu	Leu	Leu
			165						170					175	
Ala	Val	Ser	Asn	Leu	Cys	Phe	Asp	Pro	Ile	Leu	Tyr	Tyr	His	Leu	Ser
			180					185					190		
Lys	Ala	Phe	Arg	Ser	Lys	Val	Thr	Glu	Thr	Phe	Ala	Ser	Pro	Lys	Glu
	195						200					205			
Thr	Lys	Val	Arg	Lys	Lys	Asn	Xaa								
210						215									

<210> 70
 <211> 407
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (407)
 <223> Xaa equals stop translation

<400> 70
Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu
1 5 10 15
Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr
20 25 30
Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val
35 40 45
Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu
50 55 60
His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro
65 70 75 80
Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser
85 90 95

Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu
 100 105 110
 Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser
 115 120 125
 Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile
 130 135 140
 Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys
 145 150 155 160
 Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg
 165 170 175
 Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu
 180 185 190
 Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn
 195 200 205
 Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu
 210 215 220
 Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys
 225 230 235 240
 Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu
 245 250 255
 Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp
 260 265 270
 Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile
 275 280 285
 Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe
 290 295 300
 Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val
 305 310 315 320
 Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys
 325 330 335
 Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His
 340 345 350
 Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp
 355 360 365
 Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu
 370 375 380
 Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu
 385 390 395 400

Leu His Ala Leu Thr Leu Trp Gly Ala Pro Phe Pro Thr Thr Trp Val
20 25 30

Ser Cys Gln Pro Arg Ser Val Leu Arg Pro Ser Pro Val Arg Pro Gly
35 40 45

Val Pro Pro Leu Ala Ala Xaa Pro Leu Cys Ser Cys Val Ser Leu Phe
50 55 60

Phe Phe Arg Val Val Leu His Val Ser Ser Ile Cys Gly Val Ala Leu
65 70 75 80

Gly Pro Phe Arg Thr Gly Ala Pro Ala Gln Leu Leu Gly Pro Pro Pro
85 90 95

Val Ala Gln Gly Arg Leu Phe Val Pro Gln Pro Gln Ala Val Ser Gly
100 105 110

Glu Asn Arg Cys Val Val Pro Glu Leu Lys Phe Trp Glu Gly Gln Cys
115 120 125

Pro Phe Leu Trp Gly Pro Gly Leu Val Leu His Cys Phe Lys Arg Ser
130 135 140

Cys His Ser Asn Arg Gln Pro Cys Asn Arg Arg Ala Ala Cys Ser Pro
145 150 155 160

<210> 74
<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals stop translation

<400> 74
Met Ala Gly Ile His Arg Ala Phe Leu Val Phe Cys Leu Trp Gly Leu
1 5 10 15

Xaa Leu Cys Val Val Gly Gly Pro Trp Xaa
20 25

<210> 75
<211> 91
<212> PRT
<213> Homo sapiens

<400> 75
Met Ala Ala Ala Glu Glu Glu Asp Gly Gly Pro Glu Ala Lys Ile Ala

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<210> 76
<211> 33
<212> PRT
<213> Homo sapiens
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<400> 76
Met Thr Ile Trp Gln Leu Phe Ala Val Leu Ile Val Leu Phe Ala Lys
1 5 10 15

Xaa

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<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 77
Met Leu Asn Pro Phe Xaa Gln Leu Leu Leu Val Leu Leu Phe Pro Glu
1 5 10 15

Trp Pro Thr Pro Leu His Xaa
20

<210> 78

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 78

Met	Lys	Thr	Leu	Phe	Leu	Gly	Val	Thr	Leu	Gly	Leu	Ala	Ala	Ala	Leu
1				5					10					15	

Ser	Xaa	Thr	Leu	Xaa	Glu	Glu	Asp	Ile	Thr	Gly	Thr	Trp	Tyr	Val	Lys
			20					25						30	

Ala	Met	Val	Val	Asp	Lys	Thr	Phe	Arg	Arg	Gln	Glu	Ala	Gln	Lys	Val
		35					40					45			

Ser	Pro	Val	Lys	Val	Thr	Ala	Leu	Gly	Gly	Gly	Lys	Leu	Glu	Ala	Thr
	50					55					60				

Phe	Thr	Phe	Met	Arg	Glu	Asp	Arg	Cys	Ile	Gln	Lys	Lys	Ile	Leu	Xaa
65					70				75						80

Arg	Lys	Thr	Glu	Glu	Pro	Gly	Lys	Tyr	Ser	Ala	Cys	Glu	Pro	Leu	Pro
				85					90					95	

His	Ser	His	Pro	His	Xaa	Pro	Pro	Pro	Pro	Thr	Pro	Val	His	Gln	Pro
			100					105					110		

Pro	Gln	Val	Glu	Ser	Ala	Gln	Ala	Ala	Leu	Leu	Pro	Gly	Pro	Gln	Leu
		115					120					125			

Cys	Pro	Pro	Pro	Arg	Arg	Gly	Trp	Pro	Leu	Leu	Pro	Gly	Gly	Leu	Val
	130					135					140				

Ala	Leu	Thr	Ser	Asp	Thr	Gly	Cys	Asp	Arg	Leu	Val	Arg	Ser	Arg	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

145

150

155

160

Gly Pro Asp His Ala Cys Pro Leu Gly Gly Pro Ser His
 165 170

<210> 79

<211> 208

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals stop translation

<400> 79

Met Ala Asp Ser Ser Tyr Thr Ser Glu Val Gln Ala Ile Leu Ala Phe
 1 5 10 15

Leu Ser Leu Gln Arg Thr Gly Ser Gly Gly Pro Gly Asn His Pro His
 20 25 30

Gly Pro Asp Ala Ser Ala Glu Gly Leu Asn Pro Tyr Gly Leu Val Ala
 35 40 45

Pro Arg Phe Gln Arg Lys Phe Lys Ala Lys Gln Leu Thr Pro Arg Ile
 50 55 60

Leu Glu Ala His Gln Asn Val Ala Gln Leu Ser Leu Ala Glu Ala Gln
 65 70 75 80

Leu Arg Phe Ile Gln Ala Trp Gln Ser Leu Pro Asp Phe Gly Ile Ser
 85 90 95

Tyr Val Met Val Arg Phe Lys Gly Ser Arg Lys Asp Glu Ile Leu Gly
 100 105 110

Ile Ala Asn Asn Arg Leu Ile Arg Ile Asp Leu Ala Val Gly Asp Val
 115 120 125

Val Lys Thr Trp Arg Phe Ser Asn Met Arg Gln Trp Asn Val Asn Trp
 130 135 140

Asp Ile Arg Xaa Val Ala Ile Glu Phe Asp Glu His Ile Asn Val Ala
 145 150 155 160

Phe Ser Cys Val Ser Ala Ser Cys Arg Ile Val His Glu Tyr Ile Gly

175

Pro His Pro Arg Arg Pro Glu Val Gln Gly Ala Trp Ala Val Val Pro

130

135

140

Leu Xaa
145

<210> 81
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals stop translation

<400> 81
Met Ala Ala Ala Cys Gly Pro Gly Ala Ala Gly Thr Ala Cys Ser Ser
1 5 10 15

Ala Cys Ile Cys Phe Cys Xaa
20

<210> 82
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals stop translation

<400> 82
Met Lys Thr Leu Phe Leu Gly Val Thr Leu Gly Leu Ala Leu Pro Cys
1 5 10 15

Pro Ser Pro Trp Xaa Arg Arg Ile Ser Gln Gly Pro Gly Thr Xaa
20 25 30

<210> 83
<211> 374
<212> PRT
<213> Homo sapiens

<400> 83
Met Ser Val Pro Ala Phe Ile Asp Ile Ser Glu Glu Asp Gln Ala Ala
1 5 10 15

Glu Leu Arg Ala Tyr Leu Lys Ser Lys Gly Ala Glu Ile Ser Glu Glu
20 25 30

Asn Ser Glu Gly Gly Leu His Val Asp Leu Ala Gln Ile Ile Glu Ala
 35 40 45
 Cys Asp Val Cys Leu Lys Glu Asp Asp Lys Asp Val Glu Ser Val Met
 50 55 60
 Asn Ser Val Val Ser Leu Leu Leu Ile Leu Glu Pro Asp Lys Gln Glu
 65 70 75 80
 Ala Leu Ile Glu Ser Leu Cys Glu Lys Leu Val Lys Phe Arg Glu Gly
 85 90 95
 Glu Arg Pro Ser Leu Arg Leu Gln Leu Leu Ser Asn Leu Phe His Gly
 100 105 110
 Met Asp Lys Asn Thr Pro Val Arg Tyr Thr Val Tyr Cys Ser Leu Ile
 115 120 125
 Lys Val Ala Ala Ser Cys Gly Ala Ile Gln Tyr Ile Pro Thr Glu Leu
 130 135 140
 Asp Gln Val Arg Lys Trp Ile Ser Asp Trp Asn Leu Thr Thr Glu Lys
 145 150 155 160
 Lys His Thr Leu Leu Arg Leu Leu Tyr Glu Ala Leu Val Asp Cys Lys
 165 170 175
 Lys Ser Asp Ala Ala Ser Lys Val Met Val Glu Leu Leu Gly Ser Tyr
 180 185 190
 Thr Glu Asp Asn Ala Ser Gln Ala Arg Val Asp Ala His Arg Cys Ile
 195 200 205
 Val Arg Ala Leu Lys Asp Pro Asn Ala Phe Leu Phe Asp His Leu Leu
 210 215 220
 Thr Leu Lys Pro Val Lys Phe Leu Glu Gly Glu Leu Ile His Asp Leu
 225 230 235 240
 Leu Thr Ile Phe Val Ser Ala Lys Leu Ala Ser Tyr Val Lys Phe Tyr
 245 250 255
 Gln Asn Asn Lys Asp Phe Ile Asp Ser Leu Gly Leu Leu His Glu Gln
 260 265 270
 Asn Met Ala Lys Met Arg Leu Leu Thr Phe Met Gly Met Ala Val Glu
 275 280 285
 Asn Lys Glu Ile Ser Phe Asp Thr Met Gln Gln Glu Leu Gln Ile Gly
 290 295 300
 Ala Asp Asp Val Glu Ala Phe Val Ile Asp Ala Val Arg Thr Lys Met
 305 310 315 320
 Val Tyr Cys Lys Ile Asp Gln Thr Gln Arg Lys Val Val Val Ser His
 325 330 335

Ser Thr His Arg Thr Phe Gly Lys Gln Gln Trp Gln Gln Leu Tyr Asp
 340 345 350

Thr Leu Asn Ala Trp Lys Gln Asn Leu Asn Lys Val Lys Asn Ser Leu
 355 360 365

Leu Ser Leu Ser Asp Thr
 370

<210> 84
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 84
 Met Ser Val Pro Ala Phe Ile Asp Ile Ser Glu Glu Asp
 1 5 10

<210> 85
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 85
 Gln Ala Ala Glu Leu Arg Ala Tyr Leu Lys Ser Lys Gly Ala Glu
 1 5 10 15

<210> 86
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 86
 Ile Ser Glu Glu Asn Ser Glu Gly Gly Leu His Val Asp Leu Ala Gln
 1 5 10 15

Ile

<210> 87
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 87
 Ile Glu Ala Cys Asp Val Cys Leu Lys Glu Asp Asp Lys Asp Val Glu
 1 5 10 15

Ser Val

<210> 88
 <211> 16

<210> 93

<211> 18
 <212> PRT
 <213> Homo sapiens

<400> 93
 Lys Met Arg Leu Leu Thr Phe Met Gly Met Ala Val Glu Asn Lys Glu
 1 5 10 15

Ile Ser

<210> 94
 <211> 196
 <212> PRT
 <213> Homo sapiens

<400> 94
 Met Glu Ala Val Pro Glu Gly Asp Trp Phe Cys Thr Val Cys Leu Ala
 1 5 10 15

Gln Gln Val Glu Gly Glu Phe Thr Gln Lys Pro Gly Phe Pro Lys Arg
 20 25 30

Gly Gln Lys Arg Lys Ser Gly Tyr Ser Leu Asn Phe Ser Glu Gly Asp
 35 40 45

Gly Arg Arg Arg Arg Val Leu Leu Arg Gly Arg Glu Ser Pro Ala Ala
 50 55 60

Gly Pro Arg Tyr Ser Glu Glu Gly Leu Ser Pro Ser Lys Arg Arg Arg
 65 70 75 80

Leu Ser Met Arg Asn His His Ser Asp Leu Thr Phe Cys Glu Ile Ile
 85 90 95

Leu Met Glu Met Glu Ser His Asp Ala Ala Trp Pro Phe Leu Glu Pro
 100 105 110

Val Asn Pro Arg Leu Val Ser Gly Tyr Arg Arg Ile Ile Lys Asn Pro
 115 120 125

Met Asp Phe Ser Thr Met Arg Glu Arg Leu Leu Arg Gly Gly Tyr Thr
 130 135 140

Ser Ser Glu Glu Phe Ala Ala Asp Ala Leu Leu Val Phe Asp Asn Cys
 145 150 155 160

Gln Thr Phe Asn Glu Asp Asp Ser Glu Val Gly Lys Ala Gly His Ile
 165 170 175

Met Arg Arg Phe Phe Glu Ser Arg Trp Glu Glu Phe Tyr Gln Gly Lys
 180 185 190

Gln Ala Asn Leu
 195

<210> 95
<211> 20
<212> PRT
<213> Homo sapiens

<400> 95
Met Glu Ala Val Pro Glu Gly Asp Trp Phe Cys Thr Val Cys Leu Ala
1 5 10 15

Gln Gln Val Glu
20

<210> 96
<211> 21
<212> PRT
<213> Homo sapiens

<400> 96
Gly Glu Phe Thr Gln Lys Pro Gly Phe Pro Lys Arg Gly Gln Lys Arg
1 5 10 15

Lys Ser Gly Tyr Ser
20

<210> 97
<211> 21
<212> PRT
<213> Homo sapiens

<400> 97
Leu Asn Phe Ser Glu Gly Asp Gly Arg Arg Arg Val Leu Leu Arg
1 5 10 15

Gly Arg Glu Ser Pro
20

<210> 98
<211> 20
<212> PRT
<213> Homo sapiens

<400> 98
Ala Ala Gly Pro Arg Tyr Ser Glu Glu Gly Leu Ser Pro Ser Lys Arg
1 5 10 15

Arg Arg Leu Ser
20

<210> 99
<211> 21
<212> PRT
<213> Homo sapiens

<400> 99

Met Arg Asn His His Ser Asp Leu Thr Phe Cys Glu Ile Ile Leu Met
 1 5 10 15

Glu Met Glu Ser His
 20

<210> 100
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 100
 Asp Ala Ala Trp Pro Phe Leu Glu Pro Val Asn Pro Arg Leu Val Ser
 1 5 10 15

Gly Tyr Arg Arg
 20

<210> 101
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 101
 Ile Ile Lys Asn Pro Met Asp Phe Ser Thr Met Arg Glu Arg Leu Leu
 1 5 10 15

Arg Gly Gly Tyr Thr
 20

<210> 102
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 102
 Ser Ser Glu Glu Phe Ala Ala Asp Ala Leu Leu Val Phe Asp Asn Cys
 1 5 10 15

Gln Thr Phe Asn Glu
 20

<210> 103
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 103
 Asp Asp Ser Glu Val Gly Lys Ala Gly His Ile Met Arg Arg Phe Phe
 1 5 10 15

Glu

$$\begin{array}{ll} \langle 210 \rangle & 108 \\ \langle 211 \rangle & 26 \end{array}$$

<212> PRT
<213> Homo sapiens

<400> 108
Glu Glu Ile Asp Cys Thr Glu Glu Glu Met Met Val Phe Ala Ala Leu
1 5 10 15

Gln Tyr His Ile Asn Lys Leu Ser Gln Ser
20 25

<210> 109
<211> 26
<212> PRT
<213> Homo sapiens

<400> 109
Glu Glu Ile Asp Cys Thr Glu Glu Glu Met Met Val Phe Ala Ala Leu
1 5 10 15

Gln Tyr His Ile Asn Lys Leu Ser Gln Ser
20 25

<210> 110
<211> 26
<212> PRT
<213> Homo sapiens

<400> 110
Lys Glu Leu Ser Phe Ala Arg Ile Lys Ala Val Glu Cys Val Glu Ser
1 5 10 15

Thr Gly Arg His Ile Tyr Phe Thr Leu Val
20 25

<210> 111
<211> 17
<212> PRT
<213> Homo sapiens

<400> 111
Gly Trp Asn Ala Gln Ile Thr Leu Gly Leu Val Lys Phe Lys Asn Gln
1 5 10 15

Gln

<210> 112
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 112

Met Val Thr Thr Ile Val Leu Gly Arg Arg Phe Ile Gly Ser Ile Val
1 5 10 15

Lys Glu Ala Ser Gln Arg Gly Lys Val Ser Leu Phe Arg Ser Ile Leu
20 25 30

Leu Phe Leu Thr Arg Phe Thr Val Leu Thr Ala Thr Gly Trp Ser Leu
35 40 45

Cys Arg Ser Leu Ile His Leu Phe Arg Thr Tyr Ser Phe Leu Asn Leu
50 55 60

Leu Phe Leu Cys Tyr Pro Phe Gly Met Tyr Ile Pro Phe Leu Gln Leu
65 70 75 80

Asn Xaa Xaa Leu Arg Lys Thr Ser Leu Phe Asn His Met Ala Ser Met
85 90 95

Gly Pro Arg Glu Ala Val Ser Gly Leu Ala Lys Ser Arg Asp Tyr Leu
100 105 110

Leu Thr Leu Arg Glu Thr Trp Lys Gln His Xaa Arg Gln Leu Tyr Gly
115 120 125

Pro Asp Ala Met Pro Thr His Ala Cys Cys Leu Ser Pro Ser Leu Ile
130 135 140

Arg Ser Glu Val Glu Phe Leu Lys Met Asp Phe Asn Trp Arg Met Lys
145 150 155 160

Glu Val Leu Val Ser Ser Met Leu Ser Ala Tyr Tyr Val Ala Phe Val
165 170 175

Pro Val Trp Phe Val Lys Asn Thr His Tyr Tyr Asp Lys Arg Trp Ser
180 185 190

Cys Xaa Thr Leu Pro Ala Gly Val His Gln His Leu Arg Asp Pro His
195 200 205

Ala Ala Pro Ala Ala Cys Gln Leu Leu

215

<400> 113
Met Val Thr Thr Ile Val Leu Gly Arg Arg Phe Ile Gly Ser Ile Val
1 5 10 15

```
<210> 114
<211> 23
<212> PRT
<213> Homo sapiens
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Ala Thr Gly Trp Ser Leu Cys
20

<400> 115
Arg Ser Leu Ile His Leu Phe Arg Thr Tyr Ser Phe Leu Asn Leu Leu
1 5 10 15

```
<210> 116
<211> 30
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 116

Leu Asn Xaa Xaa Leu Arg Lys Thr Ser Leu Phe Asn His Met Ala Ser
 1 5 10 15

Met Gly Pro Arg Glu Ala Val Ser Gly Leu Ala Lys Ser Arg
 20 25 30

<210> 117
 <211> 30
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 117
 Asp Tyr Leu Leu Thr Leu Arg Glu Thr Trp Lys Gln His Xaa Arg Gln
 1 5 10 15

Leu Tyr Gly Pro Asp Ala Met Pro Thr His Ala Cys Cys Leu
 20 25 30

<210> 118
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 118
 Ser Pro Ser Leu Ile Arg Ser Glu Val Glu Phe Leu Lys Met Asp Phe
 1 5 10 15

Asn Trp Arg Met Lys Glu Val Leu Val Ser Ser Met Leu Ser Ala
 20 25 30

<210> 119
 <211> 27
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 119
 Tyr Tyr Val Ala Phe Val Pro Val Trp Phe Val Lys Asn Thr His Tyr
 1 5 10 15

Tyr Asp Lys Arg Trp Ser Cys Xaa Thr Leu Pro
 20 25

<210> 120
 <211> 20

<212> PRT

<213> Homo sapiens

<400> 120

Ala Gly Val His Gln His Leu Arg Asp Pro His Ala Ala Pro Ala Ala
1 5 10 15

Cys Gln Leu Leu
20

<210> 121

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 121

Leu Val Leu Gly Leu Ser Xaa Leu Asn Asn Ser Tyr Asn Phe Ser Phe
1 5 10 15

<210> 122

<211> 17

<212> PRT

<213> Homo sapiens

<400> 122

His Val Val Ile Gly Ser Gln Ala Glu Glu Gly Gln Tyr Ser Leu Asn
1 5 10 15

Phe

<210> 123

<211> 19

<212> PRT

<213> Homo sapiens

<400> 123

His Asn Cys Asn Asn Ser Val Pro Gly Lys Glu His Pro Phe Asp Ile
1 5 10 15

Thr Val Met

<210> 124

<211> 17

<212> PRT

<400> 124
Phe Ile Lys Tyr Val Leu Ser Asp Lys Glu Lys Lys Val Phe Gly Ile
1 5 10 15

val

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<400> 125  
Ile Pro Met Gln Val Leu Ala Asn Val Ala Tyr Ile Ile  
      1                               5               10
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<400> 126
Ile Pro Met Gln Val Leu Ala Asn Val Ala Tyr Ile Ile
1 5 10

<400> 127
Asp Gly Lys Val Ala Val Asn Leu Ala Lys Leu Lys Leu Phe Arg
1 5 10 15

<400> 128
Ile Arg Glu Lys Asn Pro Asp Gly Phe Leu Ser Ala Ala
1 5 10

<400> 129
Met Met Phe Gly Gly Tyr Glu Thr Ile
1 5

<210> 130
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 130
 Tyr Arg Asp Glu Ser Ser Ser Glu Leu Ser Val Asp Ser Glu Val Glu
 1 5 10 15

Phe Gln Leu Tyr Ser Gln Ile His
 20

<210> 131
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 131
 Tyr Ala Gln Asp Leu Asp Asp Val Ile Arg Glu Glu Glu His Glu Glu
 1 5 10 15

Lys Asn Ser Gly Asn Ser Glu Ser Ser Ser Ser Lys Pro Asn Gln Lys
 20 25 30

Lys Leu Ile Val Leu Ser Asp Ser Glu Val Ile Gln Leu Ser Asp Gly
 35 40 45

Ser Glu Val Ile Thr Leu Ser Asp Glu Asp Ser Ile Tyr Arg Cys Lys
 50 55 60

Gly Lys Asn Val Arg Val Gln Ala Gln Glu Asn Ala His Gly Leu Ser
 65 70 75 80

Ser Ser Leu Gln Ser Asn Glu Leu Val Asp Lys Lys Cys Lys Ser Asp
 85 90 95

Ile Glu Lys Pro Lys Ser Glu Glu Arg Ser Gly Val Ile Arg Glu Val
 100 105 110

Met Ile Ile Glu Val Ser Ser Ser Glu Glu Glu Glu Ser Thr Ile Ser
 115 120 125

Glu Gly Asp Asn Val Glu Ser Trp
 130 135

<210> 132
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 132
 Met Leu Leu Gly Cys Glu Val Asp Asp Lys Asp Asp Asp Ile Leu Leu
 1 5 10 15

Ser Cys Leu Phe Arg His Ser Trp Asp Lys Gln Cys Asp Arg Cys His
35 40 45

Val Leu Ser Trp Lys Arg Val Gln Gly Ala Ser Gly Lys Leu Gln Ala
115 120 125

Phe	Gly	Phe	Cys	Glu	Tyr	Lys	Glu	Pro	Glu	Ser	Thr	Leu	Arg	Ala	Leu
130						135						140			
Arg	Leu	Leu	His	Asp	Leu	Gln	Ile	Gly	Glu	Lys	Lys	Leu	Leu	Val	Lys
145					150					155					160
Val	Asp	Ala	Lys	Thr	Lys	Ala	Gln	Leu	Asp	Glu	Trp	Lys	Ala	Lys	Lys
				165					170					175	
Lys	Ala	Ser	Asn	Gly	Asn	Ala	Arg	Pro	Glu	Thr	Val	Thr	Asn	Asp	Asp
			180					185					190		
Glu	Glu	Ala	Leu	Asp	Glu	Glu	Thr	Lys	Arg	Arg	Asp	Gln	Met	Ile	Lys
		195					200					205			
Gly	Ala	Ile	Glu	Val	Leu	Ile	Arg	Glu	Tyr	Ser	Ser	Glu	Leu	Asn	Ala
	210					215					220				
Pro	Ser	Gln	Glu	Ser	Asp	Ser	His	Pro	Arg	Lys	Lys	Lys	Lys	Glu	Lys
225					230					235					240
Lys	Glu	Asp	Ile	Phe	Arg	Arg	Phe	Pro	Val	Ala	Pro	Leu	Ile	Pro	Tyr
				245					250					255	
Pro	Leu	Ile	Thr	Lys	Glu	Asp	Ile	Asn	Ala	Ile	Glu	Met	Glu	Glu	Asp
			260					265					270		
Lys	Arg	Asp	Leu	Ile	Ser	Arg	Glu	Ile	Ser	Lys	Phe	Arg	Asp	Thr	His
		275					280					285			
Lys	Lys	Leu	Glu	Glu	Glu	Lys	Gly	Lys	Lys	Glu	Lys	Glu	Arg	Gln	Glu
	290					295					300				
Ile	Glu	Lys	Glu	Arg	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg
305					310					315					320
Glu	Arg	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu
				325					330					335	
Lys	Glu	Lys	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Asp	Arg	Asp	Arg	Asp
			340					345					350		
Arg	Thr	Lys	Glu	Arg	Asp	Arg	Asp	Arg	Asp	Arg	Glu	Arg	Asp	Arg	Asp
		355					360					365			
Arg	Asp	Arg	Glu	Arg	Ser	Ser	Asp	Arg	Asn	Lys	Asp	Arg	Ile	Arg	Ser
	370					375					380				
Arg	Glu	Lys	Ser	Arg	Asp	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu
385					390					395					400
Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu
				405					410					415	

Val Pro Pro Gly Thr Pro Met Ile Pro Val Pro
35 40

1 5
Met Val Gly Lys His Leu Gly Ala Arg Lys Asp His Pro Gly Leu Lys
20 25 30

Ala Lys Glu
35

1 5
Ser Glu Lys Ala Ser Asp Met Leu Ile Arg Gln Leu Leu Ala Lys Cys
20 25 30

Gly Leu Val Leu Ser Trp Lys Arg Val
35 40

1
Glu Pro Glu Ser Thr Leu Arg Ala Leu Arg Leu Leu His Asp Leu Gln

20 25 30
 Ile Gly Glu Lys Lys Leu Leu Val
 35 40

 <210> 141
 <211> 39
 <212> PRT
 <213> Homo sapiens

 <400> 141
 Lys Val Asp Ala Lys Thr Lys Ala Gln Leu Asp Glu Trp Lys Ala Lys
 1 5 10 15
 Lys Lys Ala Ser Asn Gly Asn Ala Arg Pro Glu Thr Val Thr Asn Asp
 20 25 30
 Asp Glu Glu Ala Leu Asp Glu
 35

 <210> 142
 <211> 40
 <212> PRT
 <213> Homo sapiens

 <400> 142
 Glu Thr Lys Arg Arg Asp Gln Met Ile Lys Gly Ala Ile Glu Val Leu
 1 5 10 15
 Ile Arg Glu Tyr Ser Ser Glu Leu Asn Ala Pro Ser Gln Glu Ser Asp
 20 25 30
 Ser His Pro Arg Lys Lys Lys Lys
 35 40

 <210> 143
 <211> 44
 <212> PRT
 <213> Homo sapiens

 <400> 143
 Glu Lys Lys Glu Asp Ile Phe Arg Arg Phe Pro Val Ala Pro Leu Ile
 1 5 10 15
 Pro Tyr Pro Leu Ile Thr Lys Glu Asp Ile Asn Ala Ile Glu Met Glu
 20 25 30
 Glu Asp Lys Arg Asp Leu Ile Ser Arg Glu Ile Ser
 35 40

 <210> 144
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 144

Lys Phe Arg Asp Thr His Lys Lys Leu Glu Glu Glu Lys Gly Lys Lys
 1 5 10 15

Glu Lys Glu Arg Gln Glu Ile Glu Lys Glu Arg Arg Glu Arg Glu Arg
 20 25 30

Glu Arg Glu Arg Glu Arg Glu Arg Arg
 35 40

<210> 145

<211> 93

<212> PRT

<213> Homo sapiens

<400> 145

Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Lys Glu Lys
 1 5 10 15

Glu Arg Glu Arg Glu Arg Glu Arg Asp Arg Asp Arg Asp Arg Thr Lys
 20 25 30

Glu Arg Asp Arg Asp Arg Asp Arg Glu Arg Asp Arg Asp Arg Asp Arg
 35 40 45

Glu Arg Ser Ser Asp Arg Asn Lys Asp Arg Ile Arg Ser Arg Glu Lys
 50 55 60

Ser Arg Asp Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg
 65 70 75 80

Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu
 85 90

<210> 146

<211> 52

<212> PRT

<213> Homo sapiens

<400> 146

Arg Asp Arg Asp Arg Asp Arg Glu Arg Ser Ser Asp Arg Asn Lys Asp
 1 5 10 15

Arg Ile Arg Ser Arg Glu Lys Ser Arg Asp Arg Glu Arg Glu Arg Glu
 20 25 30

Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu
 35 40 45

Arg Glu Arg Glu
 50

<210> 147

<211> 22

<212> PRT

<213> Homo sapiens

<400> 147

Lys Pro Gln Met Glu Gly Arg Leu Val Gly Gly Gly Gly Ser Phe Ser
1 5 10 15

Ser Arg Gly Arg His Pro
20

<210> 148

<211> 25

<212> PRT

<213> Homo sapiens

<400> 148

Leu Leu Val Pro Ser Pro Ser Leu Leu Pro Ala Val Ser Ser Tyr His
1 5 10 15

Leu Pro Leu Gly Arg Gly Leu Ile Arg
20 25

<210> 149

<211> 23

<212> PRT

<213> Homo sapiens

<400> 149

Glu Gln Gly Ser Ala Val Arg Ser Pro Ala Phe Pro Val Arg Gln Ala
1 5 10 15

Trp Leu Pro Cys Ser Gly Ser
20

<210> 150

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 150

Met Gly Leu Asn Pro Pro Gly Leu Thr Ser Ala Leu Lys Pro Gln Met
1 5 10 15

Glu Gly Arg Leu Val Gly Gly Gly Gly Ser Phe Ser Ser Arg Gly Arg
20 25 30

His Pro Ala Gly Trp Val Leu Pro Gln Pro Cys Leu Leu Leu Ser Pro
35 40 45

Thr Leu Ser Phe Pro Pro Ala Cys Gly Leu Leu Val Pro Ser Pro Ser

50 55 60
 Leu Leu Pro Ala Val Ser Ser Tyr His Leu Pro Leu Gly Arg Gly Leu
 65 70 75 80
 Ile Arg Pro Ala Phe Lys Ile Lys Val Cys Ser Lys Leu Thr Val Trp
 85 90 95
 Cys Ser Leu Pro Ser Pro Ser Arg Trp Arg Cys Cys His Gly Asn Ala
 100 105 110
 Val Ala Leu Pro Ala Leu Gly Pro Trp Arg Xaa Trp Glu Gln Gly Ser
 115 120 125
 Ala Val Arg Ser Pro Ala Phe Pro Val Arg Gln Ala Trp Leu Pro Cys
 130 135 140
 Ser Gly Ser Leu Thr Ser Trp
 145 150

<210> 151
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 151
 Asn Val Thr Lys Ile Thr Leu Glu Ser Phe Leu Ala Trp Lys Lys Arg
 1 5 10 15
 Lys Arg Gln Glu Lys Ile Asp Lys Leu Glu Gln Asp Met Glu Arg Arg
 20 25 30
 Lys Ala Asp Phe Lys Ala Gly Lys Ala Leu Val Ile Ser Gly Arg Glu
 35 40 45
 Val Phe Glu Phe Arg Pro Glu Leu Val Asn Asp Asp Asp Glu Glu Ala
 50 55 60

<210> 152
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 152
 Glu Arg Arg Lys Ala Asp Phe Lys Ala Gly Lys Ala Leu Val Ile Ser
 1 5 10 15
 Gly Arg Glu Val Phe Glu
 20

<210> 153
 <211> 89

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 153
 Met Cys Asp Glu Leu Pro Gly Glu Gly Arg Trp Glu Pro Gly Gln Asp
 1 5 10 15
 Arg Lys Leu Cys Leu Ser Phe Pro Leu Gly Thr Pro Ala Arg Pro Ile
 20 25 30
 Lys Ser Val Cys Pro Thr Leu Leu Ser Leu Val Phe Leu Ser Arg Gly
 35 40 45
 Met Glu Gln Arg Val Arg Glu Ala Val Ala Val Ser Thr Ser Ala Pro
 50 55 60
 Ala Pro Ser Ala Ser Glu Pro Phe Leu Ser Trp Gly Met Gly Leu Ala
 65 70 75 80
 Xaa Phe Ser Phe Pro Phe Leu Tyr Leu
 85

<210> 154
 <211> 95
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 154
 Gly Ala Ser Leu Gly Ser Ser Ser Ser Cys Pro Ser His Ser Trp Trp
 1 5 10 15
 Gly Gln Arg Ser Val Cys Arg Glu Thr Ala Ser Pro Leu Pro Arg Trp
 20 25 30
 Met Leu Tyr Leu Asp Gly Leu Ala Thr Ser His Phe Leu His His Pro
 35 40 45
 Glu Pro His Leu Leu Pro Ser Pro Gly Val Phe Thr Arg Leu Cys Cys
 50 55 60
 His Leu Cys Pro Gly His Xaa Ser Leu Ser Gly Cys Val Met Asn Ser
 65 70 75 80
 Gln Glu Arg Glu Asp Gly Ser Gln Gly Lys Ile Gly Ser Ser Ala
 85 90 95

<210> 155
 <211> 125
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 155
 Thr Ser Val Leu Ser Ser Ser Ser Val Tyr Cys Met Gln Ala Arg Lys
 1 5 10 15
 Leu Ser Val Ser Gln Arg Tyr Arg Lys Gly Lys Glu Lys Xaa Ala Arg
 20 25 30
 Pro Ile Pro Gln Glu Arg Lys Gly Ser Asp Ala Glu Gly Ala Gly Ala
 35 40 45
 Glu Val Glu Thr Ala Thr Ala Ser Leu Thr Leu Cys Ser Ile Pro Leu
 50 55 60
 Leu Lys Lys Thr Arg Leu Ser Arg Val Gly Gln Thr Leu Phe Ile Gly
 65 70 75 80
 Leu Ala Gly Val Pro Ser Gly Lys Leu Arg Gln Ser Phe Leu Ser Cys
 85 90 95
 Pro Gly Ser His Leu Pro Ser Pro Gly Ser Ser Ser His Ile Pro Arg
 100 105 110
 Gly Lys Xaa Val Leu Gly Arg Gly Gly Ser Lys Ala Gly
 115 120 125

<210> 156
 <211> 125
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 156
 Ala Leu Val Lys Gly Thr Gly Arg Glu Lys Arg Arg Xaa Gln Gly Pro

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<210> 157
<211> 32
<212> PRT
<213> Homo sapiens
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<210> 158
<211> 31
<212> PRT
<213> Homo sapiens
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<210> 159
<211> 31
<212> PRT
<213> Homo sapiens
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<400> 159

Arg Lys Gly Ser Asp Ala Glu Gly Ala Gly Ala Glu Val Glu Thr Ala
1 5 10 15

Thr Ala Ser Leu Thr Leu Cys Ser Ile Pro Leu Leu Lys Lys Thr
20 25 30

<210> 160

<211> 25

<212> PRT

<213> Homo sapiens

<400> 160

Gln Arg Glu Gln Glu Leu Arg Trp Arg Arg Pro Leu Pro Leu Ser Pro
1 5 10 15

Ser Val Pro Ser Leu Cys Ser Arg Lys
20 25

<210> 161

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 161

Pro Leu Leu Gly Val His His Thr Ser Arg Glu Gly Xaa Val Ser Trp
1 5 10 15

Ala Glu Val Ala Ala Lys Pro Gly Lys Asn Ser Arg Ala
20 25

<210> 162

<211> 73

<212> PRT

<213> Homo sapiens

<400> 162

Met Ser Val Leu Lys Gly Glu Arg Gln Gln Thr Leu Ala Leu Ala Val
1 5 10 15

Leu Ser Val Ala Lys Glu Asn Ala Arg Asp Val Cys Cys Leu Gln Gly
20 25 30

Trp Gln Asp Thr Ser Cys Arg Asp Thr Ser Cys Ala Ala Leu Arg Gly
35 40 45

Gly Leu Gln Thr Leu Phe Pro Ala Pro Val His Phe Arg Cys Gly Gly
50 55 60

Pro Ala Glu Leu Lys Gly Arg Gly Ser

65

70

<210> 163
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 163
 Ala His Ser Phe Thr Thr Pro Glu Glu Ala Arg Gly Ala Gly Ser Met
 1 5 10 15
 Gly Cys Arg Phe Pro Phe Lys His Thr His Ser Pro His Pro Arg Arg
 20 25 30
 Pro Glu Val Gln Gly Ala Trp Ala Gly Cys Thr Ser Ala Gly Glu Lys
 35 40 45
 Ala Glu Pro Pro Pro Ser Arg Glu Pro Gly Ser Gln Ala Ser Arg Phe
 50 55 60
 Pro Leu Pro Pro
 65

<210> 164
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 164
 Gly Trp Gln Asp Thr Ser Cys Arg Asp Thr Ser Cys Ala Ala Leu Arg
 1 5 10 15
 Gly Gly Leu Gln Thr Leu Phe Pro Ala
 20 25

<210> 165
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 165
 Gly Cys Arg Phe Pro Phe Lys His Thr His Ser Pro His Pro Arg Arg
 1 5 10 15
 Pro Glu Val Gln Gly Ala Trp Ala
 20

<210> 166
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 166
 Pro His Gln Val Glu Gly Arg Leu Gly Thr Met Glu Thr Trp Asp Ser

1 5 10 15
 Ser His Glu Gly Leu Leu His Cys Arg Ile Pro Leu Lys Gly Ser Trp
 20 25 30
 Val Gln Glu Pro Ser Cys Gln Tyr Gln Trp Arg Arg Thr Arg Cys Met
 35 40 45
 Gly Ile Pro Pro Ala Thr Ser Gly Trp Pro Cys Arg Ala Pro Ala Phe
 50 55 60
 Leu Cys Ala Arg Ala Glu Phe Pro Ala Ser Pro Gly Gly Ser Thr Asn
 65 70 75 80

Phe

<210> 167
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 167
 Leu Val Thr Pro Pro Ser Gly Gly Glu Thr Gly Asp His Gly Asn Met
 1 5 10 15
 Gly Gln Leu Pro Arg Arg Ala Leu Ala Leu Gln Asn Ser Thr Gln Gly
 20 25 30
 Ile Leu Gly Pro Gly Ala Glu Leu Pro Val Ser Val Glu Lys Asp Lys
 35 40 45
 Val His Gly Asp Pro Ala Ser Asn Ile Arg Met Ala Met Pro Gly Thr
 50 55 60
 Arg Phe Pro Leu Cys Ser Cys Arg Ile Pro Cys Gln Pro Gly Gly Ile
 65 70 75 80

His

<210> 168
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 168
 Glu Gly Leu Leu His Cys Arg Ile Pro Leu Lys Gly Ser Trp Val Gln
 1 5 10 15
 Glu Pro Ser Cys Gln Tyr Gln Trp Arg Arg Thr Arg Cys Met Gly Ile
 20 25 30

<210> 169
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 169
 Gln Asn Ser Thr Gln Gly Ile Leu Gly Pro Gly Ala Glu Leu Pro Val
 1 5 10 15
 Ser Val Glu Lys Asp Lys Val His Gly Asp Pro Ala Ser
 20 25

<210> 170
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 170
 Phe Gly Thr Arg Lys Lys Tyr His Leu Cys Met Ile Pro Asn Leu Asp
 1 5 10 15
 Leu Asn Leu Asp Arg Asp Leu Val Leu Pro Asp Val Ser Tyr Gln Val
 20 25 30

Glu Ser Ser Glu Glu Asp Gln Ser Gln Thr
 35 40

<210> 171
 <211> 115
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids.

<400> 171
 Phe Leu Leu Ser Leu Gly Ser Leu Val Met Leu Leu Gln Asp Leu Val
 1 5 10 15

His Ser Glu Leu Asp Gly Thr Leu His Tyr Thr Val Ala Leu His Lys
 20 25 30

Asp Gly Ile Glu Met Ser Cys Glu Gln Ser Ile Asp Ser Pro Asp Phe
 35 40 45

His Leu Leu Asp Trp Lys Cys Thr Val Glu Ile His Lys Glu Lys Lys
 50 55 60

Gln Gln Ser Leu Ser Leu Arg Ile His Ser Leu Arg Leu Ile Leu Leu
 65 70 75 80

Thr Gly Phe His Leu Ile Thr Xaa Ile Trp Lys His Gln Ile Ser Ile
 85 90 95

Leu Lys Cys Val Gly Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys

65		70		75		80									
Val	Ile	Gln	Cys	Gln	Asn	Lys	Gly	Trp	Asp	Gly	Tyr	Asp	Val	Gln	Trp
				85					90					95	
Glu	Cys	Lys	Thr	Asp	Leu	Asp	Ile	Ala	Tyr	Lys	Phe	Gly	Lys	Thr	Val
			100					105					110		
Val	Ser	Cys	Glu	Gly	Tyr	Glu	Ser	Ser	Glu	Asp	Gln	Tyr	Val	Leu	Arg
		115					120					125			
Gly	Ser	Cys	Gly	Leu	Glu	Tyr	Asn	Leu	Asp	Tyr	Thr	Glu	Leu	Gly	Leu
		130				135					140				
Gln	Lys	Leu	Lys	Glu	Ser	Gly	Lys	Gln	His	Gly	Phe	Ala	Ser	Phe	Ser
145					150					155				160	
Asp	Tyr	Tyr	Tyr	Lys	Trp	Ser	Ser	Ala	Asp	Ser	Cys	Asn	Met	Ser	Gly
				165					170					175	
Leu	Ile	Thr	Ile	Val	Val	Leu	Leu	Gly	Ile	Ala	Phe	Val	Val	Tyr	Lys
			180					185					190		
Leu	Phe	Leu	Ser	Asp	Gly	Gln	Tyr	Ser	Pro	Pro	Pro	Tyr	Ser	Glu	Tyr
		195					200					205			
Pro	Pro	Phe	Ser	His	Arg	Tyr	Gln	Arg	Phe	Thr	Asn	Ser	Ala	Gly	Pro
		210				215					220				
Pro	Pro	Pro	Gly	Phe	Lys	Ser	Glu	Phe	Thr	Gly	Pro	Gln	Asn	Thr	Gly
225					230					235				240	
His	Gly	Ala	Thr	Ser	Gly	Phe	Gly	Ser	Ala	Phe	Thr	Gly	Gln	Gln	Gly
				245					250					255	
Tyr	Glu	Asn	Ser	Gly	Pro	Gly	Phe	Trp	Thr	Gly	Leu	Gly	Thr	Gly	Gly
			260					265					270		
Ile	Leu	Gly	Tyr	Leu	Phe	Gly	Ser	Asn	Arg	Ala	Ala	Thr	Pro	Phe	Ser
		275					280					285			
Asp	Ser	Trp	Tyr	Tyr	Pro	Ser	Tyr	Pro	Pro	Ser	Tyr	Pro	Gly	Thr	Trp
		290				295					300				
Asn	Arg	Ala	Tyr	Ser	Pro	Leu	His	Gly	Gly	Ser	Gly	Ser	Tyr	Ser	Val
305					310					315				320	
Cys	Ser	Asn	Ser	Asp	Thr	Lys	Thr	Arg	Thr	Ala	Ser	Gly	Tyr	Gly	Gly
				325					330					335	
Thr	Arg	Arg	Arg												
			340												

<210> 175

<211> 24

<212> PRT

<213> Homo sapiens

<400> 175

Ala Cys Ser Ser Ala Cys Ile Cys Phe Cys Asp Arg Gly Pro Cys Leu
1 5 10 15

Gly Trp Asn Asp Pro Asp Arg Met
20

<210> 176

<211> 26

<212> PRT

<213> Homo sapiens

<400> 176

Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val Ile Gln Cys Gln Asn
1 5 10 15

Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp
20 25

<210> 177

<211> 32

<212> PRT

<213> Homo sapiens

<400> 177

Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln Lys Leu Lys Glu
1 5 10 15

Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp Tyr Tyr Tyr Lys
20 25 30

<210> 178

<211> 28

<212> PRT

<213> Homo sapiens

<400> 178

Tyr Lys Leu Phe Leu Ser Asp Gly Gln Tyr Ser Pro Pro Pro Tyr Ser
1 5 10 15

Glu Tyr Pro Pro Phe Ser His Arg Tyr Gln Arg Phe
20 25

<210> 179

<211> 26

<212> PRT

<213> Homo sapiens

<400> 179

Glu Asn Ser Gly Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile

15

<400> 180
Asn Arg Ala Tyr Ser Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val
1 5 10 15

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<210> 181
<211> 124
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 181
Thr Glu Ser Gln Met Lys Cys Phe Leu Gly Asn Ser His Asp Thr Ala
1 5 10 15
Xaa Xaa Xaa

1 5
Pro Arg His Thr Cys Ser Gly Gln Gly Leu His Gly Gly Xaa Xaa Xaa
20 25 30

20
 Thr Ala Pro Leu Arg Ala Leu Gln Gln His Ser Gln Asp Gly Lys Leu
 35 40 45
 ...

35
Cys Thr Asn Ser Leu Pro Ala Ala Arg Gly Gly Pro His Lys His Val
50 55 60
Glu Gly Arg

50
Val Val Thr Val Val Tyr Ser Val Lys His Trp Lys Pro Thr Glu Arg
65 70 75 80
Asp Met Asp

65
Ser Ser Val Ser Ile Lys Lys Glu Glu Glu Thr Asp Trp Asp Met Asp
85 90 95

Gln Leu Ser Lys Gln Arg Thr Thr Tyr Glu Met Lys Ser Gly Ser Ser
 100 105 110

Gly Val Gln Thr Glu Glu Leu Arg His Pro Ser Leu
 115 120

<210> 182

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 182

Asn Ala Ser Trp Glu Ile His Met Thr Gln Arg His Val Ile Pro Xaa
 1 5 10 15

Leu Ala Arg Ala Ser Met Xaa Val Xaa Xaa Xaa Gln Arg Pro Ser Glu
 20 25 30

Leu Cys Ser Ser Ile Arg Arg Met Ala Asn Ser Ala Gln Ile Val Phe
 35 40 45

Pro Leu Pro Val Gly Ala Pro Thr Asn Thr Leu Ser Ser Leu Leu Tyr
 50 55 60

Thr Val Leu Asn Thr Gly Asn Gln Gln Lys Glu Ala Val
 65 70 75

<210> 183

<211> 30

<212> PRT

<213> Homo sapiens

<400> 183

Ala Pro Leu Arg Ala Leu Gln Gln His Ser Gln Asp Gly Lys Leu Cys
 1 5 10 15

Thr Asn Ser Leu Pro Ala Ala Arg Gly Gly Pro His Lys His
 20 25 30

<210> 184

<211> 27

<212> PRT

<213> Homo sapiens

<400> 184

Arg Ser Ser Val Ser Ile Lys Lys Glu Glu Glu Thr Asp Trp Asp Met
 1 5 10 15

Asp Gln Leu Ser Lys Gln Arg Thr Thr Tyr Glu
 20 25

<210> 185

<211> 29

<212> PRT

<213> Homo sapiens

<400> 185

Leu Cys Ser Ser Ile Arg Arg Met Ala Asn Ser Ala Gln Ile Val Phe
 1 5 10 15

Pro Leu Pro Val Gly Ala Pro Thr Asn Thr Leu Ser Ser
 20 25

<210> 186

<211> 17

<212> PRT

<213> Homo sapiens

<400> 186

Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys Leu Gln
 1 5 10 15

Leu

<210> 187

<211> 67

<212> PRT

<213> Homo sapiens

<400> 187

Gly Ser Cys Phe Ala Thr Trp Ala Phe Ile Gln Lys Asn Thr Asn His
 1 5 10 15

Arg Cys Val Ser Ile Tyr Leu Ile Asn Leu Leu Thr Ala Asp Phe Leu

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20 25 30
 Leu Thr Leu Ala Leu Pro Val Lys Ile Val Val Asp Leu Gly Val Ala
 35 40 45
 Pro Trp Lys Leu Lys Ile Phe His Cys Gln Val Thr Ala Cys Leu Ile
 50 55 60
 Tyr Ile Asn
 65

<210> 188
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 188
 Lys Asn Thr Asn His Arg Cys Val Ser Ile Tyr Leu Ile Asn Leu Leu
 1 5 10 15
 Thr Ala Asp Phe Leu Leu Thr Leu Ala Leu Pro Val Lys Ile Val
 20 25 30

<210> 189
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 189
 Lys His Thr Val Glu Thr Arg Ser Val Ala Phe Arg Lys Gln Leu Asn
 1 5 10 15

Arg

<210> 190
 <211> 30
 <212> PRT
 <213> Homo sapiens.

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 190
 Pro Gln Val Leu His Leu Arg Trp Leu Pro Lys Val Leu Gly Tyr Arg
 1 5 10 15

Ser Xaa Pro Leu Arg Leu Ala Asp Pro Ser Thr Phe Xaa Met

20

25

30

<210> 191
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 191
 Gln Leu Leu Gly Phe Glu Gly Asn Asp Ser Ala Gly Glu Arg Arg Trp
 1 5 10 15
 Arg Gly Ala Asn Met Gln Ile Pro Leu Leu Gln Val Ala Leu Pro Leu
 20 25 30
 Ser Thr Glu Glu Gly Thr Gly Pro Ser Gly Pro Thr Gln Pro Ser Pro
 35 40 45
 Gln Gly Glu Val Arg Phe Leu Arg Ser Pro Arg Met Gly Gly Gln Val
 50 55 60
 Pro His Trp Glu Trp Arg Ser His Ser Leu Pro Trp Val Leu Thr Ser
 65 70 75 80
 Thr Leu Ser Gly Cys Glu Gly Asp Leu Pro Gly Phe Pro His Gln Val
 85 90 95
 Gln Leu Pro Ala Ala Glu Ser His Thr Leu Asn Thr Gly Leu Leu Arg
 100 105 110
 Ser Asp Thr Gly Gln Phe Thr Pro Cys Leu Lys Leu Ala Phe Glu Arg
 115 120 125
 Pro Ser Gly
 130

<210> 192
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 192
 Asn Asp Ser Ala Gly Glu Arg Arg Trp Arg Gly Ala Asn Met Gln Ile
 1 5 10 15
 Pro Leu Leu Gln Val Ala Leu Pro
 20

<210> 193
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 193
 Pro Ser Pro Gln Gly Glu Val Arg Phe Leu Arg Ser Pro Arg Met Gly
 1 5 10 15

Gly Gln Val Pro His Trp Glu Trp Arg Ser His Ser Leu
20 25

<210> 194
<211> 27
<212> PRT
<213> Homo sapiens

<400> 194
His Gln Val Gln Leu Pro Ala Ala Glu Ser His Thr Leu Asn Thr Gly
1 5 10 15

Leu Leu Arg Ser Asp Thr Gly Gln Phe Thr Pro
20 25

<210> 195
<211> 60
<212> PRT
<213> Homo sapiens

<400> 195
Ala Pro Leu Glu Thr Met Gln Asn Lys Pro Arg Ala Pro Gln Lys Arg
1 5 10 15

Ala Leu Pro Phe Pro Glu Leu Glu Leu Arg Asp Tyr Ala Ser Val Leu
20 25 30

Thr Arg Tyr Ser Leu Gly Leu Arg Asn Lys Glu Pro Ser Leu Gly His
35 40 45

Arg Trp Gly Thr Gln Lys Leu Gly Arg Ser Pro Cys
50 55 60

<210> 196
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 196

Met Gln Asn Lys Pro Arg Ala Pro Gln Lys Arg Ala Leu Pro Phe Pro
 1 5 10 15
 Glu Leu Glu Leu Arg Asp Tyr Ala Ser Val Leu Thr Arg Tyr Ser Leu
 20 25 30
 Gly Leu Arg Asn Lys Glu Pro Ser Leu Gly His Arg Trp Gly Thr Gln
 35 40 45
 Lys Leu Gly Arg Ser Pro Cys Ser Glu Gly Ser Gln Gly His Thr Thr
 50 55 60
 Asp Ala Ala Asp Val Gln Asn His Ser Lys Glu Glu Gln Arg Asp Ala
 65 70 75 80
 Gly Ala Gln Arg Xaa Cys Gly Gln Gly Arg His Thr Trp Ala Tyr Arg
 85 90 95
 Xaa Gly Ala Gln Asp Thr Ser Arg Leu Thr Gly Asp Pro Arg Gly Gly
 100 105 110
 Glu Arg Ser Pro Pro Lys Cys Gln Ser Met Lys Gln Gln Glu Gly Ala
 115 120 125
 Pro Ser Gly His Cys Trp Asp Gln Trp Cys His Gly Ala Ser Glu Val
 130 135 140
 Val Trp Pro Glu Ser Arg Lys Arg Ala Gln Ile Phe Xaa Ser Pro Cys
 145 150 155 160
 Arg Gln Ser Pro Arg Ser Ser Ala Leu Gly Ala Gly Gln Lys Leu Ala
 165 170 175
 Val Cys Ser Pro Asp Ile Leu Cys Cys Pro Thr Asp Thr Leu Leu Ala
 180 185 190
 Ser His Pro His Ser Leu Leu Thr Gly Thr Gln Phe Ser Gly Gln Thr
 195 200 205
 Gln Ala Leu Ala Pro Ser Trp Cys Ala
 210 215

<210> 197

<211> 26

<212> PRT

<213> Homo sapiens

<400> 197

Ala Pro Gln Lys Arg Ala Leu Pro Phe Pro Glu Leu Glu Leu Arg Asp
 1 5 10 15

Tyr Ala Ser Val Leu Thr Arg Tyr Ser Leu
 20 25

<210> 198

<211> 27

<400> 201

Ile Ala Gln Val Leu Lys Ala Glu Met Cys Leu Val Xaa Arg Pro His
1 5 10 15

Pro Xaa Leu Leu Asp Ser His Arg Gly Trp Ala Gly Glu Thr Leu Arg
20 25 30

Gly Gln Gly Arg Gln Glu Xaa Glu Ser Asp Thr Lys Ala Gly Thr Leu
35 40 45

Gln Leu Gln Arg Gln Ala Pro Leu Pro Leu Thr Gln His Ser Leu Val
50 55 60

Leu Pro Ile Ser Pro Gly Pro Ser Asn His Thr Gln Ser
65 70 75

<210> 202

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 202

Arg Gly Trp Ala Gly Glu Thr Leu Arg Gly Gln Gly Arg Gln Glu Xaa
1 5 10 15

Glu Ser Asp Thr
20

<210> 203

<211> 20

<212> PRT

<213> Homo sapiens

<400> 203

Ala Pro Leu Pro Leu Thr Gln His Ser Leu Val Leu Pro Ile Ser Pro
1 5 10 15

Gly Pro Ser Asn
20

<210> 204

<211> 166

<212> PRT

<213> Homo sapiens

<400> 204

Asn Arg Glu Arg Gly Gly Ala Gly Ala Thr Phe Glu Cys Asn Ile Cys
1 5 10 15

Leu Glu Thr Ala Arg Glu Ala Val Val Ser Val Cys Gly His Leu Tyr
20 25 30

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Cys Trp Pro Cys Leu His Gln Trp Leu Glu Thr Arg Pro Glu Arg Gln
 35 40 45

Glu Cys Pro Val Cys Lys Ala Gly Ile Ser Arg Glu Lys Val Val Pro
 50 55 60

Leu Tyr Gly Arg Gly Ser Gln Lys Pro Gln Asp Pro Arg Leu Lys Thr
 65 70 75 80

Pro Pro Arg Pro Gln Gly Gln Arg Pro Ala Pro Glu Ser Arg Gly Gly
 85 90 95

Phe Gln Pro Phe Gly Asp Thr Gly Gly Phe His Phe Ser Phe Gly Val
 100 105 110

Gly Ala Phe Pro Phe Gly Phe Phe Thr Thr Val Phe Asn Ala His Glu
 115 120 125

Pro Phe Arg Arg Gly Thr Gly Val Asp Leu Gly Gln Gly His Pro Ala
 130 135 140

Ser Ser Trp Gln Asp Ser Leu Phe Leu Phe Leu Ala Ile Phe Phe Phe
 145 150 155 160

Phe Trp Leu Leu Ser Ile
 165

<210> 205

<211> 149

<212> PRT

<213> Homo sapiens

<400> 205

Asn Arg Glu Arg Gly Gly Ala Gly Ala Thr Phe Glu Cys Asn Ile Cys
 1 5 10 15

Leu Glu Thr Ala Arg Glu Ala Val Val Ser Val Cys Gly His Leu Tyr
 20 25 30

Cys Trp Pro Cys Leu His Gln Trp Leu Glu Thr Arg Pro Glu Arg Gln
 35 40 45

Glu Cys Pro Val Cys Lys Ala Gly Ile Ser Arg Glu Lys Val Val Pro
 50 55 60

Leu Tyr Gly Arg Gly Ser Gln Lys Pro Gln Asp Pro Arg Leu Lys Thr
 65 70 75 80

Pro Pro Arg Pro Gln Gly Gln Arg Pro Ala Pro Glu Ser Arg Gly Gly
 85 90 95

Phe Gln Pro Phe Gly Asp Thr Gly Gly Phe His Phe Ser Phe Gly Val
 100 105 110

Gly Ala Phe Pro Phe Gly Phe Phe Thr Thr Val Phe Asn Ala His Glu
 115 120 125

Pro Phe Arg Arg Gly Thr Gly Val Asp Leu Gly Gln Gly His Pro Ala
 130 135 140

Ser Ser Trp Gln Asp
 145

<210> 206
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 206
 Asn Arg Glu Arg Gly Gly Ala Gly Ala Thr Phe Glu Cys Asn Ile Cys
 1 5 10 15

Leu Glu Thr Ala Arg Glu Ala Val Val Ser Val Cys Gly His Leu Tyr
 20 25 30

Cys Trp Pro Cys Leu His Gln Trp Leu
 35 40

<210> 207
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 207
 Glu Thr Arg Pro Glu Arg Gln Glu Cys Pro Val Cys Lys Ala Gly Ile
 1 5 10 15

Ser Arg Glu Lys Val Val Pro Leu Tyr Gly Arg Gly Ser Gln Lys Pro
 20 25 30

Gln Asp Pro Arg Leu Lys
 35

<210> 208
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 208
 Thr Pro Pro Arg Pro Gln Gly Gln Arg Pro Ala Pro Glu Ser Arg Gly
 1 5 10 15

Gly Phe Gln Pro Phe Gly Asp Thr Gly Gly Phe His Phe Ser Phe Gly
 20 25 30

Val Gly

<210> 209
 <211> 36

<213> Homo sapiens

Ala Phe Pro Phe Gly Phe Phe Thr Thr Val Phe Asn Ala His Glu Pro

1 5 10 15

Phe Arg Arg Gly Thr Gly Val Asp Leu Gly Gln Gly His Pro Ala Ser
20 25 30

Ser Trp Gln Asp
35

<213> Homo sapiens

Gly Leu Ser Thr Gly Pro Asp Met Ala Ser Leu Asp Leu Phe Val

1	5	10	15
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<213> Homo sapiens

Gly Arg Pro Thr Arg Pro Ser Gln Ala Thr Arg His Phe Leu Leu Gly

1 5 10 15

Thr Leu Phe Thr Asn Cys Leu Cys Gly Thr Phe Cys Phe Pro Cys Leu
20 25 30

Gly Cys Gln Val Ala Ala Asp Met Asn Glu Cys Cys Leu Cys Gly Thr
35 40 45

Ser Val Ala Met Arg Thr Leu Tyr Arg Thr Arg Tyr Gly Ile Pro Gly
50 55 60

Ser Ile Cys Asp Asp Tyr Met Ala Thr Leu Cys Cys Pro His Cys Thr
65 70 75 80

Leu Cys Gln Ile Lys Arg Asp Ile Asn Arg Arg Arg Ala Met Arg Thr
85 90 95

phe

<213> Homo sapiens

<400> 212

Ile Lys Asn Leu Ile Phe Phe Met Pro Ser Val Val Leu Lys His Ile
 1 5 10 15

His His Ile Ser Val Ala Lys Asp Gly Glu Glu Leu Lys Leu Lys Arg
 20 25 30

Cys Leu Leu Asn Phe Val Ala Ser Val Arg Ala Phe His His Gln Phe
 35 40 45

Leu Glu Ser Thr His Gly Ser Pro Ser Val Asp Ile Ser Leu Asp Leu
 50 55 60

Ala Lys Ser Thr Met Arg Thr Ala Lys Ser Cys His Ile Val Ile Thr
 65 70 75 80

Asn Arg Ser Arg Asp Ala Ile Ser Gly Pro Val Glu Ser Pro His Cys
 85 90 95

Asp Ala Cys Ser Thr Gln Thr Ala Phe Ile His Ile Ser Cys Asn Leu
 100 105 110

Thr Pro Lys Ala Arg Glu Thr Lys Cys Ala Thr Glu Thr Ile Ser Lys
 115 120 125

Gln Gly Ser Glu Gln Glu Met Ser Cys Gly Leu Gly Arg Thr Arg Gly
 130 135 140

Ser Thr
 145

<210> 213

<211> 23

<212> PRT

<213> Homo sapiens

<400> 213

Phe Leu Leu Gly Thr Leu Phe Thr Asn Cys Leu Cys Gly Thr Phe Cys
 1 5 10 15

Phe Pro Cys Leu Gly Cys Gln
 20

<210> 214

<211> 24

<212> PRT

<213> Homo sapiens

<400> 214

Ser Ile Cys Asp Asp Tyr Met Ala Thr Leu Cys Cys Pro His Cys Thr
 1 5 10 15

Leu Cys Gln Ile Lys Arg Asp Ile
 20

<210> 215

<400> 219
Glu Phe Gly Thr Ser Arg Gly Arg Gln His Arg Ala Leu Glu
1 5 10

<210> 220
 <211> 80
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 220
 His Gln Thr Pro Gly Val Thr Gly Leu Ser Ala Val Glu Met Asp Gln
 1 5 10 15
 Ile Thr Pro Ala Leu Trp Glu Ala Leu Ala Ile Asp Thr Leu Arg Lys
 20 25 30
 Leu Arg Ile Gly Thr Arg Arg Pro Arg Ile Arg Trp Gly Gln Glu Ala
 35 40 45
 His Val Pro Ala Gly Ala Ala Gln Glu Gly Pro Leu His Leu Leu Leu
 50 55 60
 Gln Arg Pro Ala Pro Trp Gly Xaa Ala Pro His Gly Lys Ala Cys Gly
 65 70 75 80

<210> 221
 <211> 87
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 221
 Gly Leu Gly Gln Gly Gly Gln Gly Leu Asp Gly Gly Arg Lys Leu Met
 1 5 10 15
 Tyr Leu Gln Glu Leu Pro Arg Arg Asp His Tyr Ile Phe Tyr Cys Lys
 20 25 30
 Asp Gln His His Gly Gly Xaa Leu His Met Gly Lys Leu Val Gly Arg
 35 40 45
 Asn Ser Asp Thr Asn Arg Glu Ala Leu Glu Glu Phe Lys Lys Leu Val
 50 55 60
 Gln Arg Lys Gly Leu Ser Glu Glu Asp Ile Phe Thr Pro Leu Gln Thr
 65 70 75 80
 Gly Ser Cys Val Pro Glu His
 85

130
Val Lys Asp Arg Ala Ala Ala Xaa Pro Ser Val Thr Pro Arg Asn Arg
145 150 155 160

Val Phe Ile Ser Arg Ala Leu Cys Cys Arg Pro Arg Leu Val Pro Asn
 165 170 175

<210> 223
 <211> 103
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 223
 Gly Leu Pro Glu Gly Arg Arg Asp Leu Val His Leu Asp Cys Gly Gln
 1 5 10 15

Ala Cys His Thr Arg Cys Leu Met Ser Gly Pro Pro Ala Pro Gln Glu
 20 25 30

Gly Glu Ala Ser Pro Ser Leu Glu Val Gly Arg Ala Gly Ala Leu Ala
 35 40 45

Lys Gly Gln Pro Gly His Ser Leu Pro Val Glu Ala Gly Ala Leu Gly
 50 55 60

Leu Ala Val Gly Glu Gly Gly Gly Gly Xaa Gly Gly Gly Ala His Arg
 65 70 75 80

Arg Cys Ile Cys Gln Ala Pro Pro Ser Ser Ala Xaa Gly Phe Ser Ser
 85 90 95

Gly Cys Thr Asp Pro Pro Ser
 100

<210> 224
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 224
 Val Glu Met Asp Gln Ile Thr Pro Ala Leu Trp Glu Ala Leu Ala Ile
 1 5 10 15

Asp Thr Leu Arg Lys Leu Arg Ile Gly Thr Arg Arg Pro Arg
 20 25 30

<210> 225
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 225
 Arg Lys Leu Met Tyr Leu Gln Glu Leu Pro Arg Arg Asp His Tyr Ile
 1 5 10 15
 Phe Tyr Cys Lys Asp Gln His
 20

<210> 226
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 226
 Glu Ala Leu Glu Glu Phe Lys Lys Leu Val Gln Arg Lys Gly Leu Ser
 1 5 10 15
 Glu Glu Asp Ile Phe Thr Pro
 20

<210> 227
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 227
 Arg Ala Thr Ser Pro Pro Gly Arg Arg Gly Gln Pro Leu Leu Gly Gly
 1 5 10 15
 Gly Gln Ser Trp Gly Pro Gly Lys Arg Ala Ala
 20 25

<210> 228
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 228
 Phe Phe Trp Met His Arg Ser Ser Leu Met Lys Val Asn Val Ala Ser
 1 5 10 15
 Asn Phe Pro Pro Pro Arg Ala Val Thr Phe Thr Gly Asp
 20 25

<210> 229
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 229

Cys Leu Met Ser Gly Pro Pro Ala Pro Gln Glu Gly Glu Ala Ser Pro
1 5 10 15

Ser Leu Glu Val Gly Arg Ala Gly Ala Leu Ala Lys
20 25